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Natural History

OFTHE

PASSIONS.

By WALTER CHARLTON, M.D.

Mihi crede, qui nihil agere videntur, majora agunt; humana divinaq; simul tractant. Seneca Epist. 8.

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S. L. CAly

The Epistle Prefatory to a Person of Honour, Friend to the Author.

Eigazerai eis agernv ev egnula Juxn, exercetur ad virtutem in solitudine anima; was the saying of a Bragman or Indian Philosopher to Alexander the Great: and how memorable it is, you may perhaps collect from this diversion. For, the imperfect Discourse I herewith send to you, my dear Friend, concerning the PASSIONS, is the product of my late ten-weeks solitude in the Country. Where being remote from my Library, and wanting conversation with Learned Men; I knew not how more innocently to shorten the winter evenings, than by spending them in revising some Philolophical papers of my own, wherein among other things, I had formerly, out of the best Authors, made certain Collections concerning the divine art of acquiring con-Stant Tranquility of Mind, by Wisdom or the right use of Reason. And of this serious Diversion I then made choice, both because I well understood the best part of Human Science to be that which teacheth us how to moderate our Affections to the - deceipt-A 3

deceiptful and transitory things of this life, and so regulate our Actions, as to reap from them, whatever their Events may be, the happy fruit of internal Acquiescence and Satisfaction: and because my accumulated Missortunes had at that time reduced me to a necessity of consulting that part of Philosophy, about the most effectual Remedies against Discontent.

In this state and resolution then, first I remembred, that Nature hath made Man subject to no other real Evil, but only pain of the Body; all Grief or pain of the Mind, though many times more sharp and intollerable, being created by our own false Opinion, that we stand in want of things that are in truth without the circle of ourselves, and therefore not absolutely necessary to

our well-being.

Then I considered, that most commonly false Oppinions are occasioned, and so exorbitant Desires suggested to us by our Passions; upon which all the Good and Evil incident to us in this life, seems to depend: as Joy and Grief are the two points in which all Human actions end. For, though it be undoubtedly true, that the Reasonable Soul hath her intellectual Delights and Disquiets apart, such as are proper to her simple and spiritual nature: yet is it no less true, that those other Delights and Disquiets that are com-

mon to her with the Body, depend intirely upon the Affections. Which when regular, that is, moderated and directed by Reason, are indeed of good use to the Soul, in that they serve to incite her to desire such objects which she well knows to be pleasant and beneficial to her, and to persist in that desire: but when irregular, by representing as really good, things that are so only in appearance, provoke her to erroneous Desires, and in pursuit of them, to Actions also repugnant to the dictates of right Reason, and consequently to peace and tranquility of Mind.

From these Cogitations it was not difficult for me to infer, that the whole art of attaining unto that internal serenity after which I was seeking, consisteth principally in Directing our Desires aright, that is, to things which we clearly and distinctly know to be really Good: and that the only way so to direct our Desires, is to imploy our Understanding or Faculty of Discerning, which God hath to that end given us, strictly and attentively to examine and consider the goodness of things recommended to us by our Passions, before we determin our Will to affect and pursue them. For, most certain it is, that as our faculty of Discerning, that is, our Intellect, cannot naturally tend to falsity: so neither can our faculty

faculty of Assenting, that is our Will, be deceived, when it is determined only upon objects which we clearly and distinctly understand; and where our Will is not misplaced, there can be no just cause of Perturbation of Mind.

Being soon convinced of this no less evident than important verity, in the next place I considered, that if our inordinate Affections be the bitter fountain from whence the greatest part of, if not all our practical Errors, and by consequence most of the Evils we suffer, flow; and if as the diseases of the Body, so likewise those of the Mind, may be more easily cured, when their nature and causes are understood: then would it be requisite for me first to inquire as far as I should be able, into the nature, causes, motions, &c. of the Passions, before I proceeded further in my research after the most powerful Remedies against their Excesses.

applied myself, both by reading and meditation; by Reading, that I might recall into my memory what I had long before transcribed out of the books of such Authors who had written judiciously and laudably of the Passions: by Meditation, that I might examin the weight of what I read, by comparing it with what I daily observ-

ed within the theatre of my own breast; every Man living being naturally so sensible of the various Commotions hapning in various Passions, especially more violent ones, that some have held, the knowledge of their nature and causes may be without much of difficulty derived from thence alone, without any help from foreign observations. And while I proceeded in this course, I digested my Collections and private Sentiments into such an order or Method which feem'd to me most convenient, aswell to show their genuin succession, and mutual dependence, as to make the Antecedents support the Consequents, and both to illustrate each other reciprocally. I put them also into a dress of Language so plain and familiar, as may alone evince, my defign was to write of this Argument, neither as an Orator, nor as a Moral Philosopher, but only as a Natural one conversant in Pathology, and that too more for his own private satisfaction, than the instruction of others. And thus have I succinctly acquainted you with the Occasion, Subject, Scope and Stile of the Treatise that accompanieth. this Epistle.

But this, Noble Sir, is not all whereof I ought to advertise you, before you come to open the Treatise itself. There remain yet two or three things more, which it im-

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ports me to offer to your notice, as Prepa-

ratives against prejudice.

One is, that if in the preliminary part of the Discourse, where it was necessary for me to investigate the Subjectum Primarium of the Passions, I have declared my assent to their opinion, who hold, that in every individual Man, there are two distinct Souls, coexistent, conjoyned, and cooperating; one, only Rational, by which he is made a Reasonable creature; the other, Sensitive, by virtue whereof he participateth also of Life and Sense: I did so

chiefly for these two Reasons.

First, it seem'd to me unintelligible, how an Agent incorporeal, but not infinite, such as the Rational Soul by her excellent faculties and proper acts appears to be, can act physically in and upon a gross and ponderous body, such as ours are, immediately, or without the meditation of a third thing; which though corporeal too, may yet be of a substance so refined and subtil, as to approach somewhat nearer to the nature of a pure Spirit, than the body itself doth: and therefore for the more probable explication of the Phenomena of the Passions which are not raised in the Rational Soul, I found myself obliged to admit her to have a Sensitive one conjoyned with her, to receive her immediate suggestions, and to a-

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ctuate the body according to her soveraign will and pleasure; there being less of disparity betwixt the most thin and subtil bodies of Light and Flame (whereof many eminent Philosophers have conceived a Sensitive Soul to consist) and a substance purely Spiritual, than between a pure spirit and

a gross, heavy body, as ours is.

Secondly it seem'd to me no less unconceivable, whence that dismal Juxopaxia or intestin War which every Man too frequently feels within himself, and whereof even St. Paul himself so sadly complained, when (in Epist. ad Roman. cap. 3.) he cries out, video aliam legem in membris meis repugnantem legi mentis meæ; should arise, if not from a Duumvirate as it were of Rulers contending for superiority within us, and inclining us two contrary ways at once. For to conceive that one and the same Simple thing, such as the Reasonable Soul is rightly presumed to be, can be repugnant to itself, or at one and the same time be possessed with opposite affections; is manifestly absurd. There are indeed, who to evade this absurdity, imagine it possible, that of one and the same Rational, simple Soul, there may be two distinct Faculties or powers opposite each to other, from whose clashings and contrary inclinations this civil War may proceed. But to oblige us to swal-

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low this palpable contradiction, these Men ought to have reconciled those two repugnant notions of Simple and Compound; and to have told us, why in the same simple substance of fire there cannot likewise be two mutually repugnant faculties, heat and cold. In a Mixed body there may be, I confess, opposite faculties; and therefore the like may be imagined also in the Rational Soul, if she be conceived to be of a mixed or compound nature: but that is a= against their own supposition, and destructive to the natural immortality of the Soul. What then can remain to cause this dire War daily observed within us, betwixt the allurements of our Sense, an one side, and the grave dictates of our Mind, on the other; but two distinct Agents, the Rational Soul and the Sensitive, coexistent within us, and hotly contending about the conduct of our Will?

But You, Sir, will perhaps tell me, there may another, and that a more probable cause be given of this hostility; and that the searching wit of Monsieur des Cartes hath been so happy to discover what it is, in libr. de Passion. part. 1. art. 47. where he thus reasoneth. "In no other thing (saith be) but in the repugnancy that is between the motions which the Body by its spirits, and those which the Soul by

her will, do at the same time endeavour to excite in the Glandula Pinealis in the brain, consist all the Conflicts which Men commonly imagine betwixt the inferior part of the Soul, which is named the 46 Sensitive, and the Superior, which is cal-66 led the Rational, or betwixt the appetites natural and the will. For, in us there is only one Soul, which hath in her no " variety of parts: the same that is Sensitive, is also Rational, and all the appetites thereof are volitions. The Error by which divers Persons as it were, that " are for the most part mutually contrary, come to be imposed upon her; hath proceeded only from hence, that hitherto " her functions have not been sufficiently distinguished from the functions of the " Body; to which alone is to be ascribed all that can be observed in us to be repugnant to our reason. So that here is 66 no other Contrast, but that when the Glandule seated in the middle of the brain, is impell'd on one part by the Soul, and on the other by the Spirits Animal, which are nothing but bodies, as I have " before declared: it often happens, that "those two impulses or impressions are " contrary each to other, and that the Aronger hindereth the effect of the weaker. Now there may be distinguished two.

two kinds of motions excited in the Glandule by the spirits: some represent to the Soul objects that move the Senses, or impressions found in the brain, and use no force upon the will; others use force, namely, those that make the Passions, or the motions of the body that accompany them. And as for the first; though they often hinder the actions of " the Soul, or be hindered by them; yet because they are not directly contrary, there is no strife or contention observ-" ed in them: but only betwixt the last " and the Wills that are repugnant to them; for Example, betwixt the endeavour by " which the spirits impell the Glandule to " induce upon the Soul a desire of some " one thing, and that by which the Soul " repells the same Glandule by her will to avoid it. And this chiefly demonstra-"teth this strife, that since the will hath " not power (as hath been already lhown) " to excite Passions directly, the Soul is " therefore compell'd to useart, and to ap-" ply herself to the consideration of varicous things successively. Whence if it happen that any one of those various " things hath the force of changing for a " moment the course of the spirits; it may " so fall out, that the next thing that occurs to be considered, may want the like co force,

" force, and the spirits may resume their " former course, because the precedent dis-" position in the nerves, in the heart, and in the blood, hath not been changed: "whereby it comes to pass, that the Soul almost in the same moment feels herself impell'd to desire and decline the same thing. And this hath given Men occa-fion of imagining in the Soul two pow-66 ers mutually repugnant. But yet there may be conceiv'd a certain Conflict in this, 56 that oftentimes the same cause that exciteth some Passion in the Soul, exciteth also in the Body some certain motions, whereunto the Soul contributeth nothing at all, and which she stops, or endeavours to stop, so soon as she observes them: as is manifest from experience, " when that which exciteth Fear, causeth " also the spirits to flow into the Muscles that serve to move the leggs to flight; " and occasioneth the will of exercising " Courage to stop them.

To this Objection therefore I answer (1.) that had this excellent Man, Monsieur des Cartes been but half as conversant in Anatomy, as he seems to have been in Geometry, doubtless he would never have lodged so noble a guest as the Rational Soul, in so incommodious a closet of the brain, as the Glandula Pincalis is; the use whereof hath been demonstrated to be no other but to receive

ceive into its spongy cavities, from two little nerves, a certain serous Excrement, and to exonerate the same again into its vein, which nature hath therefore made much larger than the artery that accompanieth it; and which having no Communication with the external organs of the Senses, cannot with any colour of reason be thought the part of the brain, wherein the Soul exerciseth her principal faculties of judging and commanding. (2.). This Glandule which he supposeth to be so easily flexible and yielding to contrary impulses, is not loose-ly suspended, but fixed: so that whoever hath once beheld the solid basis, strong consistence, and firm connexion thereof, will hardly ever be brought to allow it capable of any impulse to either side, though by the greatest Hurricano of Spirits imaginable, much less by every light motion of them excited by external objects affecting the senses. - (3.) Though we should grant this Gland to be both the Throne of the Soul, and most easily flexible every way: yet hath Des Cartes left it still unconceivable, how an Immaterial Agent, not infinite, comes to move by impulse a solid body, without the mediation of a third thing that is less disparil or disproportionate to both. Now these things duely considered, you will (I presume) no longer imagine the

the Conflicts or Combats that frequently happen within us betwixt the Rational and Sensitive Appetites, to consist only in the repugnancy of the impulses of this little Glandule by the Spirits on one side, to those of the same Glandule by the Soul on the other. Besides, that the Soul hath power to excite Corporeal Passions directly, that is, without confidering successively various things; is manifest from her soveraignity over the body, which in all voluntary actions is absolute and uncontrollable and in the very instance of Fear alledged by our Author, where she determineth her Will to Courage to oppose the danger suggested, instantly and without running through a long series of various considerations, for which the then hath not time sufficient. However, evident enough it is, that this conceipt of repugnant impulses of this Gland in the brain, is so far from give ing light to the reason of the Conflict here considered, that it rather augmenteth the obscurity thereof, by implying two contrary Appetites or Wills in one and the same Soul, at one and the same time: Whereas the supposition of two Souls mutually opposing each others Appetites, doth render the same intelligible.

Against this opinion of a Duality of Souls in one Man, some have (I well know)

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with not a little confidence urged the Sentence of some of the Fathers, yea and of whole Councils, condemning all who should affert it; and more particularly Concil. 8. act. 10. Vien. in Clem. vii. & Lateran. 3. sefs. 8.

But this, Sir, is Brutum fulmen, dangerous to none, terrible only to the Unlearned. For, to any understanding Reader of those decrees, it is clearly manifest, that the edge of them is turned against first the Doctrin of the Manichees holding two human Souls in every individul Man; one polluted with the stain of vices, and derived from an evil principle; the other incontaminate, and proceeding immediately from God, yea more, a particle of the Divine: Essence itself; then the Platonics also, and Averrhoists, teaching, that the Rational Soul is not man's forma informans, but part of the Anima Mundi or Universal Soul: but not against the afferters of two Souls coexistent, one simply Reasonable, the other merely Sensitive, in every single Person, in that innocent sense I deliver it. And thus have. the same Decrees been judiciously interpreted by the religious Philosophers of the College of Conimbra; who, as of all Meni they have discoursed most acutely and profoundly of this Argument; so have they with greatest moderation treated the Defendents

fendents of this opinion by me here embraced. For (in 1. de Generat. cap. 4. quæst. 21. art. 2.) though they expressly avow their adherence rather to the common belief of the singularity of the Human Soul, as most consentaneous to the sense of the Church: yet they declare, also, that the contrary opinion ought not to be censured as heretical or erroneous.

Why therefore should I fear to espouse it? especially if to the reasons here urged, and others no less considerable alledged by me in the third Section of the Treatife to which this Epistle invites you, be added for confirmation, that so celebrated text of St. Paul (ad Thessal. I. cap. 5. vers. 23.) 78 δλόκληςον υμών τό πνευμα, κ) ή ψυχή, κ) τό σώμα ; integer vester spiritus, & anima, & corpus, &c. Where our most learned Dr. Hammond of pious memory (in his Annotations on the place) conceives the Apostle to divide the whole Man into three constituent parts, viz. the Body, which comprehendeth the flesh and members; the Vital Soul, which being also Animal or Sensitive, is common likewise to Brutes; and the Spirit, by which is denoted the Reasonable Soul originally created by God, infused into the body, and from thence after death to return to God; and this genuin exposition of his he con-

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firms by agreeing testimonies both of Ethnic Philosophers, and some ancient Fathers.

To these give me leave to superadd (ex abundanti) the concordant suffrages of three eminent Philosophers of our own age; namely, the Lord Chancellor Bacon, who (in his 4 Book of the Advancement of Learning, chap. 3.) gravely discoursing of the parts of Knowledge concerning the Mind or Soul of Man, divideth it into that which declares the nature of the Reasonable Soul, which is a thing Divine; and that which treateth of the Unreasonable Soul, which is common to us with Beasts: and then proceeds to affirm at large, that: the former hath its original from the inspiration or breath of God; the latter, from the matrices of the Elements: the immortal! Gassendus, de Physiologia Epicuri, cap. de Animæ sede, Passionibus Animi, &c. and the now flourishing Dr. Willis, in libr. de Anima Brutorum, cap. 7. whose words I forbear to transcribe, out of design to increase your satisfaction; by obliging you to read them at your leisure in the places cited. Now if folid Reasons, Authority Divine, and the judgment of many sublime Wits and profound Philosophers, aswell Ancient as Modern, be of any weight to recommend this neither heretical, nor improbable opinion to me; certainly I need not blush to incline thereunto.

thereunto. Notwithstanding this, I recount the same tanquam in Hypothesi, only as a supposition convenient to solve the Phenomena of the Passions; not as an article of try faith: nor had I so importunely insisted thus long upon arguments to justify my approbation thereof, in this Letter; had I not, through want of Books, omitted to do it where I ought, in the III. Section of

the Discourse itself.

The SECOND advertisement I owe you, Friend, is this, that the greatest part of what is delivered in the same Discourse, concerning the nature, substance, faculties, Knowledge, &c. of a Sensitive Soul, hath been borrowed from that elaborate work of our Learned Dr. Willis de Anima Brutorum, lately published. Which I hold my self bound here ingenuously to acknowledge, lest otherwise you might justly condemn me as a Plagiary, and that I may invite you also to the pleasure of attentively reading that useful Book. Wherein I found great part of what I had formerly read of that Subject in various Authors, so well collected, digested and explained; that I chose from thence to copy an image of the Sesitive Soul of Man, whereupon I was often to reflect my thoughts, while I sate to describe the most remarkable of the Passions to which it is liable: and this I did the ra-

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ther, because at that time I had by me no

other Book of the same subject.

You are not therefore to look upon the Discription of the nature and affections of a Sensitive Soul therein delivered, as a suppofition newly excogitated, and unheard of by formar Ages. For two Men conversant in the Theories of Physiologists concerning that Subject, it is well known, that all the Ancients were so far from holding the Soul of a Brute to be other than Corporeal, that they for the most part taught their Disciples, that the Soul of Man was so to: except a few of them, namely Pythagoras, Plato, and in some favourable sense Aristotle (when he defined the Soul by that enigmatical term हेएएडरहेर्सक) and his Sectators, Aristoxenus and Dicaarchus, when they called it a Harmony. True it is indeed, they were much divided in their opinions about the Substance or Matter of a Soul; some imagining it to be of Fire, as Heraclitus, Democritus, Hipparchus, and the Stoicks; some conceiving it to be on the contrary, of a Watery nature, as Hippou, and Thales; others fancying it to be composed of Water and Earth, as Xenophanes; others, of Earth and Fire, as Parmenides; others again, of all the four Elements, as Empedocles: and yet notwithstanding they unanimously consented in these points, that this Corporeal

Soul is divisible; composed of particles extremely small, subtil and active; diffused through or coextens to the whole body wherein it is contained; produced at first by generation out of the seed of the parents; . perpetually recruited or regenerated out of the purest and most spirituous part of the nourishment; subject to Contraction and Expansion in passions; and finally dissolved or extinguished by death. If you doubt of the truth of what I here say, I know not how more easily to convince you, than by referring you to the incomparable Gassendus in Lib. 1. Diogen. Laert, cap. de natura, contexturàque Anima ad mentem Epicuri: where you find the same more amply delivered.

Mean while suffer me to recite a pertinent and memorable text of the Lord Verulands (of the Advancement of Learning Book 4. Chap. 3.) that now comes into my head. "The Sensible Soul (saith he) must needs be granted to be a Corporeal sub- stance, attenuated by heat, and made in- visible. I say, a thin, gentle gale of wind swell'd and blown up from some flamy and airy nature; indued with the fostness of Air to receive impression, and with the vigour of Fire to embrace action; nourished partly by an oyly, partly by a watery substance; spread over

the body; reliding (in perfect creatures)

chiefly in the head; running through the nerves; refreshed and repaired by

the spirituous part of the blood of the

arteries: as Bernardinus Telesius (de rerum natura lib. 5.) and his Scholar Au-

" gustinus Donius have delivered it.

And as for the Bipartition of this Sensitive Soul into two principal members as it were, or active sources; viz. the Fiery part, upon which Life depends; and the Lucid, from whence all the faculties Animal are, like so many distinct rayes of light, derived: I will not affirm it to be very ancient: but yet methins, I discern more than a shadow thereof in some lines of the same most acute Lord Bacon (de vita & morte, expliantione canonis quarta) which are these.

Spiritus vitalis omnis sibi continuatur, per quos dam canales, per quos permeat, nec totaliter intercipitur. Atque hic Spiritus etiam duplex est alter ramosus tantum, permeans per parvos ductus, & tanquam lineas; alter habet etiam cellam, ut non tantum sibi continuetur, sed etiam congregetur in spatio aliquo vo, in bene magna quantitate, pro analogia corporis; atque in illa cella est sons rivulorum, qui inde deducantur. Ea cella pracipue est in ventriculis cerebri, qui in animalibus magis ignobilioribus angusti sunt; adeo ut videantur spiritus per universum corpus susi, podeantur spiritus per universum corpus susi, po-

tius quam cellulati: ut cernere est in Serpentibus, Anguillis, Muscis, quorum singulæ portiones abscissæ moventur din: etiam Aves diutius, capitibus avulsis, subsultant; quoniam parva habeant capita, & parvas cellas. At animalia nobiliora ventriculos eos habent ampliores; & maxime omnium Homo. Alterum discrimen inter spiritus est, quod spiritus Vitalis nonnullam babeat incensionem, atque sit tanquam aura composita ex flamma, O aere; quemadmodum succi animalium babeant Soleum, O aquam. At illa incensio peculiares præbet motus, & facultates. Etenim & fumus instammabilis, etiam unte flammam conceptam, calidus est, tenuis, mobilis: E tamen alia res est, postquam facta sit flamma: at incensio spirituum vitalium, multis partibus lenior est, quam mollissima flamma ex spiritu vini, aut aliis; atque insuper mixta est magna ex parte, cum substantia aerea; ut st & flammex, & aerex natura mysterium.

This place of that Prince of Modern Philosophers, the Lord St. Albans, conjoyned to that other of his immediately precedent, seems to me to contain a pourtraiture of the Sensitive Soul, drawn indeed as in perspective, in colours somewhat faint, and not acurately ground; yet with good judgment, and bold strokes of the pencil, such as give it no obscure resemblance of the original. And if you (Sir) please to compare it with the more ample description of

Dr. Willis: it will not be difficult to you, to observe, in how many things they a-

The THIRD and last thing whereof I am here to advertise you, is, that in the description of many of the Passions likewise, I have interwoven some threds taken from the webbs of those three excellent Men, Gassendus, Des Cartes, and our Mr. Hobbes; who have all written most judicioully of that obstruse Theme. Nor will I otherwise excuse myself for being so liberal to you, of what I owe to the bounty of those richer Wits; than by reciting what your beloved Seneca said to his dear Lucilius, in defence of his adopting for his own so many wise and memorable sentences of his, and our Oracle, Epicurus: adhuc de alieno liberalis sum. Quare autem alienum dixi? quicquid bene dictum est ab ullo, meum est. Epist. 16. I will only add, as a reason of my so frank communication of these unpolished papers to you, who are my Lucilius, what the same Latin Stoic most affectionately professed to his, on the like occasion: Ego vero cupio ista omnia in te transfundere, & in hoc gaudeo aliquid discere, ut doceam. Nec me ulla res delectabit, licet eximia sit & salutaris, quam mihi uni sciturus sim. Si cum hac exeeptione detur Sapientia, ut illam inclusam teneam, nec enunciem, rejiciam. Epist. 6. 9 INDEX

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SUMMARY

OFTHE

CONTENTS.

Marcus Antoninus Philosophus, Libr.

, मं मन्दर महर्ग राष्ट्रा, न्यहमाय रहा में मण्डणायंगाण, में rò пущиочимоч, &c. Quicquid sum, conflut id omne caruncula, animula, & parte principante. Proinde mitte libros. Nec distrabere amplius: (nihil obstat, quo minus boc facias) sed tanquam qui jam statim moriturus sis, carnes istas contemnas. Cruor est, & ossicula, & reticulum ex nervis, venulis arteriisque contextum. Quin & Animam considera, qualis sit. Spiritus est, sive aer, nec is semper idem, sed qui jugiter efflatus denuò resorbetur. Tertium restat, pars illa principatum gerens. Tu ergo sic tecum: Senex es: partem tui principem servire ulterius ne severis; sed nec motibus à communione bumana alienis raptari. Nec quicquam quod fato destinatum tibi fuerit, vel jam ascitum aversari, vel futurum pavere.

Natura

Natural History

OFTHE

PASSIONS.

SECTION I.

INTRODUCTION.

HE Reasonable Soul of Man seems to be of a Nature so Divine and Excellent, that it is capable of understanding all things that are in this Life intelligible; but yet so reserved and abstruse withal, that it cannot understand itself; as many most sublime Wits, who had long exercised and perplex'd themselves in enquiries into the hidden and mysterious Essence.

Essence thereof, have at length ingenu-

oully confess'd.

Well therefore may we without blushing, own our ignorance of this noblest part of our selves, from which we derive all our Knowledge. Well may we without regret content our Curiosity with those faint glimmerings of light, which shine through the Operations of this Celestial guest in our frail and darksom Tabernacles of Flesh; and which are reflected upon our Understanding, only from the illustrious Effects of its proper Powers and Acts.

What these Powers and Acts are, and how vastly they transcend the energie of a Sensitive Soul, how perfect soever in its kind; as also in what exercises of the Mind they are chiefly observable; hath been by Sir Kenelm Digby in his Book of the Rational Soul, copiously declared. So that here they need not to be repeated. Nor indeed would such a prolix research be consistent with my present design; which principally aims at a recollection of some notions, that have partly in reading, partly in meditation, occurred to me, concerning the various Passions of the Mind, their Genealogy, their first sour-ses and resorts, their most remarkable Differences, Motions, and Forces, and in fine, B 2

fine, by what kind of Connexion and intercourse betwixt two so disparate Natures, the one Incorporeal, the other Corporeal, it is, that the Rational Soul is respectively coaffected by them. And this with as much brevity, as the amplitude of the Subject can admit; with as much perspicuity, as my weak reason can attain unto, in an argument so sublime and difficult.

That I may then effect this my Design, if not so happily, as in the end to arrive at the certain and demonstrative Knowledge of the truth I seek; yet so plausibly at least, as to form an Hypothesis by which the Nature and Reasons of the principal, and most predominant of our Passions, may be congruously and with probability explained: it is requisite I begin with these few Preliminaries.

I. What kind of thing I suppose the Sensitive Soul to be, as well in Man, as in Brutes.

ous concerning the Original, Nature, and Royal Seat of the Rational Soul.

ceive both Souls to be connexed in Man,

during this shadow of life.

be affected by the motions of the Sensitive,

10

a Sensitive Soul.

in some Passions; and this, by predominion of that, in others; and whence their mutual consent, and diffent.

For, my present Conceptions concerning these things, though I foresee, I shall not be able to establish them all upon Reasons irrefutable and cogent; are yet nevertheless to be here premised, as Postulates or Fundamentals, for introduction and support of the following Theory about the Passions. These therefore I shall in their order, and concisely, and in a plain familiar Style, (such with which I am always best pleas'd, especially in Discourses Philosophical) set down, tanquam præcognoscenda.

SECT. II.

What kind of Substance the Sensitive Soul may be conceived to be.

As for the FIRST Postulatum; the Art. 1.

Sensitive Soul of a Brute Animal, I First Supposition, that

conceive to be Corporeal, and consequent- a Sensitive ly Divisible, Coextense to the whole Body; Soul is Corporeal, of a Substance either Fiery, or nearly resembling Fire; of a consistence most thin

and *subtile*, not much unlike the flame of pure Spirit of Wine, burning in a paper Lantern, or other the like close Place.

Art. 2. Two reafons of that supposition.

First, I think it to be Corporeal, Divisible, and Coextense to the whole Body; and that for two reasons, among many others not the least considerable.

One is this; that many, and divers Animal actions are daily observed to be, at one and the same time, performed by divers Parts and Members of the Body: for instance, the Eye sees, the Ear hears, the Nostrils smell, the Tongue tasteth, and all exteriour Members exercise their Sense: and Motion, all at once. For as much then as betwixt the Body and Soul of a Brute, there is no Medium (both being; intimately connexed) but the Members and Parts of the Body are Instruments: fram'd for the use of the Soul: what else can be imagined, but that many and difinct portions of the Soul so extended, do inform and actuate, the distinct Organs; and Members of the Body; each in a peculiar manner, respective to the peculiar Constitution, Farbrique, and Office thereof Amilian Sale and a Roll of the A

The Other this it is observed also, that Wipers, Eels, Earthworms, and most other Reptils being cut into many pieces; all pieces for a good while after retain a manifest

a Sensitive Soul.

manifest Motion, and no obscure sense; for, being prick'd, they contract and shrink up themselves, as sensible of the Hurt, and striving to avoid it. And this probably from hence, that these less perfect Animals having their liquors, both Vi tal and Animal, of a confistence viscuous, and not easily dissoluble or dissipable; and having their Soul, if not equally, yet universally diffused, and all its parts Subsisting immediately in those liquors: cannot suffer a division of their Body, without division of their Soul also; the parts whereof reliding for some time after, in the segments of the Body, may perhaps for that time continue to actuate, them to Motion and Sense. It hath been more then once unhappily experimented, that the Head of a Viper hath bitten a Mans Finger, and Poysoned him too, above an hour after it had been cut off. Not by involuntary convulsion of the Nerves and Muscles of the Vipers Jaws, such as not rarely happen to Animals, in the torments of Death; for those probably could neither last so long, nor so regularly open and shut the mouth, and extend the two fang teeth, by contraction of their erecting Muscles: but certainly by an action voluntary, regular, and suggested by sense, and perhaps revenge too. Whence I am apt

apt to suspect, that not only part of the Vipers Soul, but Anger and Revenge also furvived in the divided head. For, it is well known, the bite of a Viper is never Venomous, but when he is enraged: the Chrystalline liquor contained in the two little Glandules at the roots of his fang teeth, being then by a copious afflux of Spirits from the Brain, and other brisk motions thereupon impress'd, in anger (of all passions the most violent and impetuous) so altered, and exalted, as to become highly active and venenate; whereas at other times, when a Viper is not offended and provok'd, the same Liquor is found to be as harmless as the spittle of a Man in perfect health. But whether from the dangerous effects of this biting, the dire Symptoms that thereupon ensued, it be inferrible, or not, that in the ableinded head of the beast there remained any thing of Anger and Revenge: in my poor judgment 'tis very evident from the very act of biting, there still remained somewhat of life, sense, and voluntary mofent Supposition, that a Sensitive Soul is divisible and coextense to the whole body it animates, dt do noik 1000 que किसे दि पूर्व प्रियोक्त है ।

ATR I SUMMED TO LOCK IN.

Secondly Secondly

Secondly, I think the same Sensitive Art. 3. Second Soul to consist of Fire, or some matter supposition, analogous to Fire: and the Reasons industrate of cing me to be of this opinion, are many, a sensitive same I have formarly allowed where I soulis form

Some I have formerly alledged, where I Soul is fiery. discourse of the Flame of life perpetually arising from accension of the Sulphureous and inflammable parts of the blood, while circulated through the heart and lungs: which therefore I abstain from reciting in this place. Others, that have since occur'd to my consideration, I am obliged here to expose to yours.

That the Life, or Soul of Brute Ani- Art. 4. mals, is seated principally in their Blood; life is seat-we are plainly taught even by the Ora- ed principally in the blood; vine Wisdom that created them: and that and can no Blood, and Fire subsist by the same principally in sire subsist by the same principally in the blood; wine Wisdom that created them: and that and can no Blood, and Fire subsist by the same principally in the blood; with blood; wine Wisdom that created them: and that and can no Blood, and Fire subsist by the same principally in the blood; wine Wisdom that created them: and that and can no site subsists by the same principally in the blood; wine Wisdom that created them: and that and can no site subsists by the same principally in the blood; wine Wisdom that created them: and that and can no site subsists by the same principally in the blood; wine Wisdom that created them: and that and can no site subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and that and can no subsists by the same principally in the blood; wine Wisdom that created them: and the blood that the blood that the blood that the blood the blood that the blood the blood the blood the blood that the blood the blood that the blood the blood

and the other.

Should you here exact from me some description of the Essence of Fire, I should adventure to tell you, that it seems to be only a multitude of most minute and subtile particles, mutually touching each other, put into a most rapid motion, and by continual succession of some parts, and decession of others, renewed: which

preying upon, and consuming the Sulphureous parts of its subject matter, or fewel, and the Nitrous parts of the ambient aer. For, even our sense bears witness, that from the particles of this twofold aliment, Sulphureous and Nitrous, resolved to the last degree of smalness, and by a most violent and rapid motion agitated, the forms of Fire and Flame (which differ only in degrees of density, and velocity a

city of motion) do wholly refult.

Nor doth the image I find drawn in my brain of the Soul of a Brute, much differ from this description of the nature of Fire. I conceive it to be no other than a certain congregation of most minute, subil and agile particles, corpuscles or atoms (call them what you please) crowded to gether; which being, in the very first moment of life, put into brisk and most rapid motion, like that of the particles of Fire when first kindled; do so long conserve that motion, and their own subfishence, as they have a continued supply of convenient nutriment; sulphureous from the blood within, Nitrous from the aer without; and no longer. For we cannot but observe, that the Souls of all Brute Animals, of what kind soever, stand perpetually in need of a fresh supply of those

two forts of aliment; insomuch that so foon as the recruit fails, they languish and dye: no otherwise than the slame of a lamp grows weak and dim, and is extinguished, for want of oyl or air. But (what is very remarkable) besides fire and life, there is not to be found in all nature any other thing whatsoever, to whose act and subsistence such a supply of Sulphureous and Nitrous matter is necessary. Nor is any other motion in the World, whether it be of fermentation, ebullition, vegetation, or other whatever, besides that of Fire and Life, subject to be arrested and suppressed immediately from defect of aer. It was not then without very great reason, that our Master Hippocrates affirmed, Jugir aisi overban that the Soul is perpetually generated, or made anew: and that Aristotle held, के द्राप हैए की बैपवान एहींए हैं inaveiv, life it self to subsist by respiration.

This you perhaps may judge to be but a faint and imperfect representation of the nature of a Sensitive Soul. And therefore it is requisite I endeavour to render it more lively, by adding a few touches more concerning the Hypostasis or Subsistence of such a Soul; the Life, or Act; and the principal Functions, or Operations of it.

For the First of these three considera-Art. 5. Because it bles, viz. the Subsistance of a Sensitive feems to Soul; it seems not unreasonable to conbe first formed of ceive, that the Soul of a Brute doth conthe most fist of the very same Matter, of which the spiritual. particles of organical Body is formed: but of such the same particles of it as are select, most subtile. seminal and active in the highest degree. Which, matter, of which the Body it self as the flower of the whole matter, in the is made. formation of the Embrion, emerging out of the groffer mass, and mutually uniting; first force passages convenient for themselves through the whole compage of the Body, and then constitute one continued, thin, and as it were spirituous Hye postalis; adequate and ecoextense to the same. For, so soon as any matter is dispofed towards animation so by the law of the Creation of not by Epicurus's fortuitous concourse of Atoms) the Soul at the same time, which is called the Form, and the Body, which is called the Matter, begin to be formed together, under a certain species, raccording to the model or Character impressed upon them. When the more agile, and spirituous particles of the feminal matter, having freed themselves from the other parts of it, quickly assemble together, and by little and little raifing a commotion, stir up, and agitate

the groffer particles, and by degrees dif-

pose

pose them into fit postures and places, where they ought to remain and cohere; and so form the body according to the sigure or shape preordained by the Creator. Mean while this congregation of subtile and active Particles, or the Soul, which by expansion enlargeth it self, and insinuating her particles among others more gross, and as it were interweaving them, frames the body, is it felf exactly conformed to the figure and dimensions of the same body, coextended and adapted to it, as to a case or sheath, doth actuate, enliven, and inspire all and all parts thereof. While, on the other fide, the same Soul, apt and prone of it self to be dissolved, and vanish into aer, is by the Body containing it, conserved in its act and subfistence.

Now according to this notion, a Sensi- Art. 6. tive Soul may be conceived to be a most A Sensitive Soul imagined body contained in a gross one, and in gined to all points, of the same Figure with it; or be of the same it were a Spectre made up of exhalati- gure also ons, such as some vain, or superstitious with the heads have sometimes imagined to ascend wherein it from, and hover over the graves of the is containdead, and called them Ghosts. For, aried. sing together with the body, out of the material principles of Generation rightly disposed; it doth, as well as the body, receive

its determinate subsistence, conform to the idea or Type configned to it by the Law of Nature. But though the same be intimately united to the body, and every where closely intertex'd with all parts of it; as the warp and woof are interwoven in Cloth: yet so fine and subtle are the threads of which it doth consist, that it cannot possibly by our senses be discerned, nor indeed be known, otherwise than by its own Effects and Operations. Moreover, when by any violence done either to itself, or its Copartner, the Body, the life of this Soul is destroyed; instantly the particles of which it was composed, their mutual cohesion being dissolved, disperse themselves, and fly away, not leaving any the least print or mark of their late subsistence: and the Body now destitute of its conserving inmate, the Soul, speedily tends to corruption; which sooner or later, according to the less or greater compaceness of the parts of the body, dissolves that likewise into its first Principles, or Elements.

That the For the Second; it is not obscure, that Existence of the Existence of this Corporeal Soul descriptive Soul doth, pends intirely upon the Act, or Life of it: as that of and in this very respect, seems exactly like Flame, depend into common Flame, and to that alone, tirely upon inasmuch as the substance of both ceases to Motion.

be, in the very instant it ceaseth from Motion, wherein the very life of both doth confift; nor can either of the two be, by any means whatever, redintegrated, so as to be numerically the same thing it was. From whence it seems a genuine consequence, that the Essence, or Being of a Sensitive Soul, hath its beginning wholly from life, as from the accention or kindling of a certain subtile and inflammable matter. To render this yet more plain; when in the Genital matter, swarms of active, and spirituous, chiefly Sulphureous particles, predisposed to animation, have met with a less number of Saline particles, in a convenient focus; being as it were kindled, sometimes by another Soul (as in all Viviparous Animals) viz. of the Generat, sometimes by their own rapid motion (as it happens in Oviparous) they conceive life, or break forth into a kind of flame, which thenceforth continues to burn so long as it is constanly fed with sulphureous fewel from within, and nitrous from without; but instantly perisheth, when either through defect of such aliment, or violence from external agents, it comes once to be extinct. This Act of the Corporeal Soul, or enkindling of the vital matter, is in more perfect Animals, fuch as are furnished with hot blood, so mani-

manifestly accompanied with great heat, fuliginous exhalations, and other effects of fire, or flame; that it is difficult for even the most Sceptical Person in the World to doubt, that the blood is really in a continual burning, and that life is rather Flame it self, than only like it. But in other Animals less perfect, and endowed with blood less hot; though we cannot fay their Soul is properly Flame: yet we may fay, it is somwhat very like it, namely, a swarm of most subtile, active and as it were fiery particles, or a spirituous Halitus: which included in the body, doth move and agitate the denser mass thereof, and inspire the whole, and actuate all the members, and in some with admirable agility, even beyond that of more perfect Animals; as may be observed in some Reptils and Insects. And that even in these there is a fiery vigor or force constantly acting, may naturally be inferred from hence; that while they remain not unactive and drowfy (as in winter usually they do.) they can no more want the aliments of life, a perpetual supply of blood and aer, than Animals of a hotter constitution; as we shall soon declare.

Art. 8.
That the first operation of a Sensitive

As for the Third and last considerable, viz. the Faculties and Operations of a Corporeal or Sensitive Soul; I shall only

Sin the general observe, that so soon as Soul, is the For-The begins actually to exist, she first Body, accordframes for herself a convenient Seat where ing to the mo-in to reside, the body; and then organi- ed by Nature. zeth the same body, making it (according to the platform or model preordained, and intimated by secret instinct) in all parts fit and commodious for all uses necessary, as well to the propagation of the Species (for still Nature doth, though the Soul it (elf-may not, aim at Eternity) as to the conservation of the individual. For which uses she is furnished with many and various Faculties or Powers; all which the duely exerciseth, according to the various instincts, and intimate suggestions of her Governess, Nature, in acts of seweral forts; though all performed in almost one and the same manner, and as it were by the conduct of Fate, or eternal decree of Divinity congenial to her very Essence. To enumerate, and particularly recount all the natural Faculties with which the Souls of Brutes are endowed; all the various Habits resulting from practise and long exercise of those Faculies, is neither pertinent to my present institute, nor easy to be done: because of their almost infinite diversity; respective to the immense diversity of kinds of senlitive Creatures. For, as some Animals

are of a more, others of a less perfect order; and as they are diversly configu-rated, according to the several places in this great Theatre of the World, in which they are consigned to live and act their several Parts: so we see their Soull are, by the wise bounty of the Creatorn instructed with diverse inclinations, facult ties, and appetites, directive to the end to which they were predestined. In: word; since there ought to be an exact proportion and congruity betwixt every organical Body, and the Soul that in forms and animates it; and that for that reason, Nature seems to have diver sified and distinguished the various Kind of Brute Animals, by an equal diversity of their bodily structures and configura tions, easily discernable by the sight: we may even from thence alone conclude that their Corporeal Souls likewise are no less various, and endowed with Fa culties and Proprieties answerably diffe rent.

Whoever then shall attempt to enrich Philosophy with a perfect Catalogue of these so different Faculties and Proprieties observable among Brutal Souls; will find himself obliged, first to compose better Natural History of all sorts of Animals, than any we yet have, and there

Art. 9.

cension

to deliver also castrue and full account of the various Structures of their Bodies, from a Comparative Anatome of them. A work indeed most desirable and highly delightful, iobut equally difficult and laborious; hot to be performed, I fear; by any single hand in But were it much tels difficultes of the I am, you know my incapacity too well, even to expect it from mine : and what hath been already faid by me here; in the general; touching the nature of a Schlitive Souls is enough to render my Finst Pheliminary probable.

For, from thence it may, without contradiction to either Reason, for Observati- A recapitulation ons Anatomical; be conceived (1) in of the premiwhat manner the Soul of a Brute may be at first produced by accension of the most spirituous particles of the Seminal Humor, in the womb of the Parent, as one flame is kindled by another: (2) how the same Soul then forms the Organical Body out of the grosser parts of the same seed, after the figure or type pre-defigned by the Divine Protoplast at the Creation, whose wisdom directs and regulates it in that admirable work (3) How it afterwards comes to conserve, expand and augment itself, as the dimensions of the body are by degrees enlarged, until it arrive at its perfection or standard of growth; by accension of more and more of the inflammable parts of the Nourishment daily renewed, and converted into laudable blood; as the flame of a lamp is kept alive by a perpetual accension of fresh parts of oyl; (4) How the Duration of the Body depends intirely upon the sub-sistence, or perpetual renovation or regeneration of the Soul; and how immediately upon the Soul; and how immediately upon the Souls Extinction, the body submits to corruption; no otherwise than as Wine dyes, and degenerates into a Vappa, so soon as the Spirit that preferv d it in vigour and generosity, is evaporated, or suppress'd.

Art. 10. Now to the end this Corporeal Soul, The Faculties or invisible Flame, may the better thus and Organs of animate the Body, and actuate it to sense a Sensitive Soul, and voluntary motion; Nature hath most servient each wisely institued, that her Organs, and

to other:

Faculties should all of them be reciprocally inservient of official each to other, in their acts and operations. For, as out of the grosser parts of the Nutritive juice, prepared and elaborate in the Stomach and other instruments of concoction, the decays of the solid parts of the Body are daily repaired: so are the decays of the Soul itself likewise repaired out of the more subtile and spirituous particles of the same juice: which continually

ally brought afresh to the blood, as oyl to a Lamp, and kindled therein, restore both the Flame and Light of the Soul, which would otherwise quickly be confumed, and perish. More expresly; while the purer part of the Nutritive liquor feeds and renews the Lamp of Life, or flame of the blood; the most active, and most spirituous particles discharged from that flame, are carried up, and infinuated into the Brain: and there recruit or regenerate the other part of the Soul, viz. the Sensitive. And so the conversi-on of Chyle into blood, is an operation not only consequent to, but in some sort also dependent upon the Conversion of meat and drink into Chyle: and on the other side, the Animal faculty gratefully requites the good offices of the Vital, and both as amply recompense the services of the faculty of Chylification; in that the Animal Spirit confers the pulsific Power, by which the heart and arteries drive the current of the blood in a perpetual pround, for the reaccension of its inflammable parts; and the Bowels ordained for concoction of the aliment, at the same time borrow, as their enlivening heat from the flame of the blood, so their vertue both motive and sensitive from the constant afflux of Animal Spirits, with C 3

out which they cannot duly do their offices. Thus you see the brain is beholden to the Heart, both to the stomach; and reciprocally the stomach is assisted by them: and all parts conspire, by contributary helps, to continue the Soul in its subsistence, as that again acts perpetually to the conservation of herself and them: With the second of the s

to a Sensitive

Atwo fold de- To this, the Sensitive Soul, or mue sire or inclina-voegov (as Aristotle not improperly calls it) tion congenial is strictly obliged by a twofold inclination Soul; viz. of on or desire, innate or congenial to her. self-preservation, One is that of self-preservation, which she and Propagation of her kind. endeavours constantly to affect by being follicitous for convenient food, out of whose inflammable parts actually incensed, she may every minute redintegrate her own flarne. The other, that of Propagating her Species, or producing, by the same way of accension, other Sensitive Souls of the same kind; that so by an uninterrupted succession of her like, she may attain to that perpetuity, which is denied to her single or individual self. And to this end, the carefully selects out of her stock of aliment, matter sit for gneration, stores it up in the Genital parts, and is posses'd with an earnest longing to transmit the same into a place most commodious for its accension into new Souls. s

For, as it is by natural instinct, that every living Creature is from its very birth, directed to choose food most agreeable to its nature, and daily to feed thereupon; aswell that the groffer web of the body may from thence, by insensible addition and affimulation of new parts, be augmented more and more, until it attain to due magnitude, or perfection of stature: as that the finer intertexture of the Soul may be, by continually repeated Supplies of Spirits, rendred equal and coextense to the body, and inabled to execute all her functions vigorously and effectually: So it is also from the same natural instinct, that when by that gradual amplification of all lineaments of both Body and Soul, the living Creature hath at length arrived at its full strength and growth, the Animal Spirits then begin to abound, and swarm in greater multitudes than is necessary to the uses of th' individual; and the luxuriant or superfluous troops of them, together with a certain refined and generous Humor derived from the whole body, are daily transferr'd into the Genitals (natures both Laboratory, and Magazin for propagation of the Species) there to be further prepared, and formed into the Idea of an Animal exactly like to the first Generant, which

which afterwards is in the amorous congress male and female, transmitted into the Womb, therein to receive its action complishment.

Having thus lightly described the principal Faculties, and innate Dispositions of a Sensitive Soul, as also the Fundamental Laws of her Oeconomy; it remains only, that we consider the various Mutations, and irregular Commotions to which the is liable. Timo

ons.

That the Corporeal Soul, while as a To what vari- Flame burning within her Organical Body, ous Mutations Charles Charles Control of Con and irregular she on every side diffuseth heat and light, Commotions a is her self subject to various Tremblings, Sensitive Soul is Noddings, Eclipses, Inequalities, and disher own Passi- orderly Commotions, as all Flame is observed to be; this (I fay) is not obscurely discernable, in the Effects of those Alterations, which happen chiefly in her more violent Paffions withough indeed not fo clearly and distinctly discernable in Brutes, as in Men; in respect they are subject to fewer Passions than Man is, and want the Faculties of Speech to express any one of those few they feel in themselves. Wherefore that we may in some order briefly recount the most remarkable at least of these turbulent Affections incident to the Sensitive Soul; we shall shew, what Alterations the may fuffer, (1.) From her

her own proper Passions; (2.) From the temperament and diseases of the Body; (3.) from various impressions of sensible Objectis; and (4.) from exorbitant motions

of the Animal Spirits.

Most certain it is, that the Flame of the Soul doth not always burn equally, or at one constant rate; but now more, now less; sometimes briskly and clearly, sometimes dully and dimly. For, it is not only enlarged, or contracted, according as the fewel brought to feed it, is more or less in quantity, and more or less sulphureous in quality: but the very accension of it in the Heart, though of itself moderate and equal, is yet sometimes so varied by the fannings as it were of the Passions; that one while it blazeth up to a dangerous excess, as it usually happens in great Anger and Indignation; another while it is in danger of being blown out, by fuddain and furprizing Joy; or almost suffocated, by unexpected Terror, or astonishing Grief. The like may be said of the rest of the Pasfions, or strong Affects, by whose various motions the Flame of life, like the flame of a candle exposed to the Winds, is variously agitated and changed: as will more clearly appear from our ensuing discourse of the Passions in particular. itis .

Nor

Of the Nature of

Art. 13.
From the temperament and 1 diseases of the 1 Body.

Nor is it from the suddain puffs, or impulses of Passions alone, that such immutations and inequalities as these proceed. Sometimes it comes to país, that the Vital Flame by flow degrees, and as it were Hectically diminished, becomes little, pale, faint and half-extinct; as may be observed in colder temperaments, in Leuchophlegmatic bodies, in Hydropic Persons, in Virgins troubled with the Green-sickness, and other the like chronic Diseases. In which the blood being more serous or watery than it ought to be, yields but little flame, and that too inconstant, and beclouded with fume and vapour; like that which ariseth from wet and green Wood. On the contrary, it sometimes happens, that the blood being immoderately sulphureous, is almost wholly put into a conflagration; as is frequently observed in Choleric Constitutions, and feverish distempers, and great debauches with Wine. And as by these and such like disorders of the Blood, the accension of the Vital Flame is with respective variety altered: so likewise do the Lucid particles that arise to the brain from thence, and constitute the beamy web of Animal Spirits, become more, or less luminous, and regular, or irregular in their motions. For instance; From the dimi-171 , 1,04

diminished or restrained accension of the blood, the sphere of the Sensitive Soul is contracted into less compass than that of the body, and reduced to such narrowness, that it cannot re-expand itself so as to illustrate all the brain, and actuate the whole contexture of the nerves, with requisite brightness and vigour. And on the other side, when the slame of life is much intended or increased (provided it blaze not to the hight of a fever) then the whole system of Animal spirits thence deradiated, being proportionably augmented, swells to an expansion beyond the limits of the body; insomuch that a Man transported and exulting for great Joy, or puffed up with Pride, seems to be inflated above meafure, and hardly able to contain himself within the modest bounds of his own dimensions.

Besides these Alterations which the From various Sensitive or Lucid part of the Soul suffers impressions of from the various changes of the Vital; and exorbitant there are others, and those very many, Animal Spirits. which it receives immediately both from affections of the Brain, and Nerves, and from External objects making impressions thereupon: which perturb the consistence, and usual order of its parts. For example, at night, the Brain itself,

Art. 14.

from a too plentiful infusion of the Nutritive liquor, as from a gloomy cloud overcast, seems replete with vapours; so that in sleep, the Lucid part of the Soul is wholly obscured, and envellopped as it were with darkness. Nor is it rare to have Eclipses of one, or more of the Faculties Animal, meerly from some morbific matter, or gross humor fixed somewhere in the brain, and obstructing the ways of the Animal Spirits. Sometimes these Animal Spirits are not themselves sufficiently pure, clear and bright; but infected and beclouded with incongruous steams, saline, vitriolic, nitrous, and other the like darksom exhalations; which deform the images of things drawn in the brain, change them into false and chimerical representations, and raise exorbitant motions of the Spirits. Whence it sometimes comes to pass, that the whole Soul undergoes various metamorphoses, and is invested in strange apparations, and confused with delusory whimzies:

as it too frequently happens to Men in Hypochondriacal Melancholy, and madness; and likewise in drunken fits.

Art. 15.

And as for the various Gestures of the The various Soul, by which respectively to the vaGestures of a rious impressions of sensible objects, she sensitive soul, expressed one while Gladness and Plea-

Sure ;

Sure; another, Aversion and Offence it the impressiis worthy our observation, that some nal objects va-times she is allured outwardly into the riously affect-organ of some one of the senses, and that the occasionally crowds herself into the Eye, Ear, Palate, or other instrument of sense, there more nearly to approach and entertain the pleasing object; sometimes on the contrary, to avoid an Evil the apprehends, and decline an encontres with an ingrateful object, she retreats inwardly, and leaving her watches, shrinks up herself, as if she laboured to hide her head from the danger threatned. So that we can scarcely perceive, or imagine any thing without disquiet and commotion: and at the apprehension of almost any object whatsoever, the whole Soul is moved, and put into a trembling, and the substance of it variously agitated, as a Field of Corn is waved to and fro by contrary gusts of Winds.

Nor do these agitations, especially if they be any whit violent, stop at the Sensitive part of the Soul, or Spirits Animal (which I imagine to make a kind of lucid Fluidum, subject to Undulations or waving motions throughout, upon either external, or internal impulses) but, as waves rowl on till they arrive at the shore, are carried on, by an Undulating motion

motion, even to the Vital part glowing in the blood; and impelling the flame thereof hither and thither, make it to burn unequally. For so soon as an object is either by the sense, or by the Memory, represented to the Imagination, under the appearance of Good, or Evil in the very same instant it affects, and commoves the Animal Spirits destined to maintain the Pulse of the heart: and by their influx, causing the Heart to be varioully contracted, or dilated; consequently renders the motion, and accenfion of the blood variously irregular and unequal. And thus you fee in what manner the two parts of the Sensitive Soul, the Vital flame, and the Animal spirits, reciprocally affect each other with their accidental alterations. But this you may understand more clearly and fully from the following Theory of the Passions, where we shall enquire into the Reasons and Motions of them more particular-

Art. 16. Mean while I find my self in this Place
An Enquiry arrested by a certain mighty Difficulty,
concerning
the Knowledge which though perhaps I shall not be able
wherebyBrutes to overcome, ought nevertheless to be
are directed in
actions volunattempted; not only for its own grand
importance, but because without some
plausible Explication of it at least, all our

pre-

precedent speculations concerning the nature and proprieties of a Sensitive Soul, will fall to the Ground; as an arch that wants a key, or middle stone to support

It is concerning the Knowledge of Brutes, by which they are directed in actions vothe state of the state of the state of

tuntary.

For, supposing all we have hitherto been discourling of, the Origin, Substance, Subsistence, Parts, Faculties, Inclinations, Passions and Alterations of a Corporeal Soul, to be true and evident (which is more than I dare assume) yet doth it not from thence appear, what such a Soul can, by her own proper virtue, do more than a Machine artificially fram'd and put into motion. To speak more plainly; tho it be granted; that first the impression made by an external object upon the in-Arument of sense, doth by impelling the Animal Spirits inwards, and by difposing them into a certain peculiar sigure, or mode (as the Cartesians speak) cause the act of Sensation, or simple Perception; and that then the same spirits rebounding, as it were by a reflex undulation, outward from the brain into the nerves and muscles, produce local motions: granting this, I say, yet still we are to seek, How this Soul, or any one part of it, comes

comes to be conscious of Sensation, or how it can, by a reflex act (as the Schools phrase it) perceive that it doth perceive, and according to that perception, is impell'd to diverse acts, directed to an appetite of this or that good, and sometimes in Prosecution of the good desired, to perform actions that seem to be the results of Counsel and deliberation, such as are daily observed to be done by several sorts of Beasts, as well wild as domestic. In Man indeed, it seems not difficult to conceive, that the Rational Soul, as president of all th, inferiour faculties, and constantly speculating the impressions, or images represented to her by the Sensitive, as by a mirrour; doth first form to herself conceptions and notions correspondent to their nature, and then proceed to acts of Reason, Judgment and Will. But as for Brutes that are irrational; in what matter the perception, distinction, appetite, memory of objects, and other acts resulting from an inferior kind of Reason, are in them perform'd: this, I confess, is more than I can yet understand. Some there are, I know, who rather then acknowledge their insufficiency to solve this Problem, have attributed to Brutes also Souls immaterial, and subsistent after separation from

from their bodies. But these considered not, that the Soul of a Brute, however docil and apprehensive, and using organs in their structure very little (if at all) different from those in the Head of Man, can yet have no capacity of Arts and Sciences, nor raise it self up to any objects, or acts, but what are Material: and that by consequence, the same is different from, and inferiour to the Rational Soul of Man, and material. So that instead of solving the Doubt, by eaching us, how from a certain Modiication of subtil matter, there may result uch Power, which residing in the brain of a Brute, may there receive without confusion all impressions or images brought n by the Senses, distinctly speculate, udge and know them, and then raise ppetites, and imploy the other facules in acts respective to that knowledge, nd to those appetites: instead of this, fay, they have entangled themselves an absur'd Error, ascribing to a thing deerly material, a capacity of knowing jects immaterial, and performing actions coper only to immaterial Beings.

We are therefore to search for this ower of a Sensitive Soul, by which she conscious of her own perception, on in Matter in a peculiar manner so, or

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so

so disposed or modified. But in what matter? this of the Soul, or that of the Body? Truely, if you shall distinctly examine either the Soul or the Body of a Brute, as not conjoyned and united into one Compositum; you will have a hard task of it, to find in either of them, or indeed in any other material subject whatever, any thing to which you may reasonably attribute such an Energetic and self-moving Power. But if you conside the whole Brute, as a Body animated, and by divine art of an infinite wisdom de figned, framed and qualified for certain ends and uses: then you may safely con clude, that a Brute is, by the law of the Creation, or institute of Almighty God to comparated, as that from Soul and Bo dy united, such a confluence of Facul ties should result, as are necessary to the ends and uses for which it was made Do but convert your Thoughts awhile upon Mechanic Engines, and seriously contemplate the Motions, Powers and Effect of them. They are all composed indeed of gross, solid and ponderous Materials and yet such is the design, contrivance and artifice of their various parts, a that from the Figures and Motions of them their result certain and constant opera tions, answerable to the intent of the Artist

Artist, and far transcending the forces of their divided ingredients. Before the invention of Clocks and Watches, who could expect, that of Iron and Brass, dull and heavy Metals, a Machine should be framed; which, consisting of a few. Wheels endented, and a spring regularly. disposed, should in its Motions rival the Celestial Orbs, and without the help or direction of any external Mover, by repeated Revolutions measure the succesfive spaces of time even to minutes and leconds, as exactly almost as the diurnal Revolutions of the Terrestrial Globe itself? and yet now such Machins are commony made even by some Blacksmiths, and Mens admiration of their pretty artifice ong since ceased. If then in vulgar Mechanics, the contrivance and advanagious disposition of matter, be more noble and efficacious than matter, itself: ertainly in a Living Creature, in a Body nimate, the Powers emergent from a onspiracy and co-operation of so many, various organs, and all so admirably formed, ought to be acknowledged incomparably more noble, and more Eneretic. If the Art of Man, weak and igorant Man, can give to bodies, of them-Ives weighty, fluggish and unactive, gure, connexion and motion fit to pro-D 2 duce

duce effects beyond the capacity of their single natures: What ought we to think of the divine art of the Creator, whose Power is infinite, because his Wisdom is so? Cold not He, think you, who by the voice of his Will call'd the World out of Chaos, and made so many Myriads of different Beings out of one and the same universal matter; could not He, when He created Brutes, so fashion and organize the various parts and members of their Bodies, thereto so adjust the finer and more active contexture of their spirituous Souls, and impress such motions upon them, as that from the union and cooporation of both, a Syndrome or conspiracy of Faculties or Powers should arise, by which they might be qualified and inabled to live, move and act respectively to the proper uses and ends of their Creation? Undoubtedly He could; and 'tis part of my belief, that He did. Nor do I more wonder at the Knowledge: of Beasts, by which they are directed in the election of objects, and in the profecution or avoidance of them; than I do at their simple Perception of them by their outward senses: Since I conceive the one to be as much Mechanical, as the other, though perhaps the reason of the one, is of more difficult explication than that of When the other.

When you hear the Musick of a Church Organ, is it not as pleasant to your mind, as the Musick is to your ear, to consider how so many grateful notes, and consonances that compose the charming Harmony, do all arise only from wind blown into a set of pipes gradually different in length and bore, and successively let into them by the apertures of their valves? And do you not then observe the Effect of this so artificial instrument highly to excell both the Materials of it, and the hand of the Organist that plays upon it? The like Harmony you have perhaps sometimes heard from a Musical Water-work, as the vulgar calls it; an Organ that plaied of itfelf, without the hands of a Musician to press the jacks, meerly by the force of a stream of Water opening and shutting the valves alternately, and in an order predefign'd to produce the harmonical founds, consonances and modes requisite to the composition, to which it had been fet.

Now, to the first of these Organs you may compare a Man; in whom the Rational Soul seems to perform the office of the Organist, while governing and directing the Animal Spirits in all their motions, she disposeth and ordereth all Fa-

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culties

culties of the inferior, or Sensitive Soul, according to her Will and Pleasure: and so makes a kind of Harmony of Reason,

Sense, and Motion.

And to the Other, or Hydraulic Organ you may compare a Brute, whose Sensitive Soul being scarcely moderatrix of her self, and her Faculties, doth indeed in order to certain ends necessary to her nature, perform many trains of actions; but such as are (like the various parts of an Harmonical Composition) regularly prescribed (as the notes of a Tune are prick'd down) by the law of her creation, and determined for the most part to the same thing; viz. the Confervation of herself. So that she seems to produce an Harmony of Life, Sense and Motion.

But this Analogy seems to be much greater in Brutes of the lowest order, such upon whose Souls or Natures there are not many Types or Notes of actions to be done by them, imprinted; and which, according to that common saving of the Schools, non tam agunt; quam aguntur, act rather by necessary impulse, or constraint, than freely; and of their own accord: than in more perfect Animals, whose actions are ordained to more; and more considerable uses; and upon whose Souls

Souls therefore more original lessons are as it were prick'd down; and to which we cannot justly deny a power of both varying those innate prints, and compounding them on with another occasionably. Which Power seems to be radicated in the Corporeal Soul, by nature so constituted, as to be knowing and active in some certain things necessary to it; and capable also of being afterward taught, by various accidents usually affecting it, both to know other things, and to do far more, and more intricate actions.

All the Knowledge therefore these more Art 17. perfect Brutes are observed to have, must The Know-be either Innate or Adventitious. The either Innate or Former is commonly nam'd Natural Instinct; Acquired. which being by the Omnipotent Creator, in the very act of their Formation, infufed, and as an indelible Character impress'd upon their very Principles or Natures; both urges them to, and directs them in certain actions necessary to the prorogation of their Life, and to the propagation of their kind. The Other is by little and little acquired, by the daily perception of new objects, by imitation, by experience, by Mans teaching, and by some other ways: and in some Brutes, is advanced to a higher degree than in others. Nevertheless this same acquired cognition

tion, and Cunning also (how great soever) doth in some of them depend altogether upon instinct natural, and the fre-

Here it would not perhaps be very difficult for me to recount, what forts of astions done by more perfect Beafts, are referrible to their Congenite Knowledge alone; what to their acquired alone; and what to a combination of both. I could also shew how their acquir'd knowledge ariseth by degrees from impressions of new objects, from examples, or imitation, from experience and other adventitious helps just now mentioned.

I might moreover explain in what manner the direct images of things brought into the common Sensory, produce first

rostand to saled I might moreover explain in what manner the direct images of things brought into the common Sensory, produce first Imagination, and then Memory; how the same images reflex'd, instantly raise Appetite, if they appear good and agreeable; or Aversion, if displeasing and hurtful; and how thereupon in the same in-Stant Local Motions succeed, for prosecution, or avoidance of the things themselves. All these, I say, I might deduce from notions competent to a Corporeal Soul, and form the Powers of a Body informed and actuated thereby, both being comparated for such determinate actions by artifice Divine; without bringing into the scene any immaterial natures (as some have done) to solve the difficulties concerning the science or knowledge of Brutes. But because these arguments have been already handled by many excellent Men, and curious Wits, Sir Kenelm Digby, Monsieur des Cartes, Mr. Hobbes, &c. and most accurately by Dr. Willis, in his late Book de Anima Brutorum, and because a further inquisition into them is not absolutely necessary to my design of explicating the Reasons of the Passions: I thefore shall add no more concerning them; but contenting myself with the hints I have given, conclude this Section with two pertinent and remarkable claufes.

Manifest it is, that all Brute Animals of what kind soever, are by natural in-That Brutesare stinct alone, as by an eternal rule, or law directed only engraven upon their Hearts, urged and di-flinct, in all acrected to do all things that conduce eitiens that conther to their own defense and conservation, or to the propagation of their species. servation, or to And hence it is necessarily consequent, the propagation of their species that in order to their observance of this not by Reason congenite law, or accomplishment of these two grand Ends of their Creation, they must all, by the dictates of the same natural instinct, both know, whatever things are convenient and beneficial, what-

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ever are inconvenient, hurtful and destructive to them; and according to this knowledge, prosecute these with hatred and aversation, those with love and delight. When therefore we observe Brutes to distinguish betwixt wholesome and venomous plants, to feek for convenient food, cunningly to hunt after prey, retreat from injuries of weather, provide themselves denns and other secret places for rest and security, travel from one Climate to another, and change their stations at certain periods and seasons of the year, to love their benefactors, and fly from their enemies, to court their mates, build nests and other nurseries for their young, to suckle, feed, cherish, protect and teach them, to use a thousand pretty shifts and artifices to elude their purfuers, in fine, to manage all their affairs regularly and prudently, as it were by counsel and deliberation, in order to the two principal ends preordained by the Divine Wisdom: When we (I say) ob serve all these their actions, we are not to refer them to a principal of Reason, or any free and self-governing Faculty (like the Rational Soul of Man) wherewith they are endowed; but only to Natudirected which they are incited and

Neither

Neither are we to give credit to their opinion who hold, that all such actions arise from a kind of Material Necessity Nor Material (fuch as Demoritus fancied) and without Necessity. any intention, or Scope aimed at by the Beasts themselves; merely from the congruity or incongruity of images impressed upon the organ of the sense affected: as if Brute Animals were as little conscious of their own actings, as artificial Engines are of their motions, and the reasons of them. For we cannot but obferve, that Brutes, by vertue of natural instinct, perform not only simple acts excited by some one single impression made upon this or that Sensory, by an external agent, or object; as when the scorching heat of the Sun in Summer beating upon them, makes them to retire to cool and shady places for refuge: But also many other Compound actions, such to which a long series, or chain of subservient acts is required. For instance; in the Spring, when Birds feeling the warmth and invigorating (I had almost call'd it also the prolific) influence of th' approaching Sun (that Universal Adjutant of Generation) find themselves pleasantly instigated to their duty of Propagation; then, without any other impulse, or direction, but that of natural instinct, they dexterosly, and

and as it were with counsel and deliberation, address themselves chiefly to that most delightful work. First, with a kind of chearful Solemnity they choose, and espouse their Mates, all their Females bringing love, obsequiousness, diligence and feather-beds for their dowry. Then they seek for places convenient to reside in, and there with skill and art exceeding the proudest of human Architecture, they build their Nests. Which are no sooner finished, than they lay their Eggs therein. Upon these in the next place they fit with admirable constancy and patience, until they have hatch'd them. And that great work done, they in fine with exemplary tenderness and care feed, cherish and protect their young, till they are able to live of themselves. Now here, you see, is a multiplicity of actions regularly and with design done in order to one grand scope, or end: such as cannot possibly proceed from simple impressions of external objects. Twere easy for me here to invite you to reflect on the admirable Republics of Bees and Pismires, in which all the constitutions of a most perfect Government are exemplified: yet without written laws or promulgation of Right: but the former example is sufficient. I conclude then, that since in all these

these, the affairs or businesses of Brutes are managed and adminstred always after one and the same manner, without any variety: that is a convincing argument, that the enterprises and works of Brutes of this fort, are excited neither by external objects, whose impulse is ever various; nor by any internal purpose of mind, which is more mutable than the Wind; but by a principle more certain and fix'd, and always determined to one thing; which can be nothing else but Natural instinct.

And how far the power and influence of this instinct may extend toward the excitation of the various Passions to which the Sensitive Soul is of her own nature subject and prone; will appear more clearly from our subsequent Enquiry into their proper causes and motions: to which I now hasten; having thus long detained you in hearing what seems to me most probable and consentaneous to reafon, concerning the substance, original, proprieties and faculties of the Sensitive Soul, common to Man with Brutes. Which was my first Preliminary.

SECT. III.

Of the Nature, Origin, and principal Seat of the Rational Soul in Man.

Art. 1.
The Excellency of a Rational Soul.

TOW neer so ever Brute Beasts may be allowed to approach to the Divine faculty of Reason, or Discourse; yet most certain it is, no one of them hath ever been observed to attain thereunto. For, if we with all favor and partiality imaginable, examine the Effects of either their innate, or acquired Knowledge, or of both conjoyned, and improved into Habits by long practice and experience; yet in the end we shall be forced to confess, that even the most intricate, and most cunning of all their actions, come far short of those that are ordinarily done by Man, by virtue of the Reasonable Soul, wherewith he is by the immense bounty of his Creator, endowed.

This is a Verity so obvious to every Man of common sense and understanding, so evident by its own splendor; that it needs neither Arguments drawn from rea-

of a Rational Soul.

son to establish, nor Examples drawn from frequent observations to illustrate it: Especially now after the many excellent discourses thereupon, written by Learned Men of almost all ages, all nations, all professions. It being therefore unnecessary for me by prolix reafoning to evince, and superfluous by multiplicity of instances to elucidate the vast disparity betwixt the proper Acts and Operations of a Reasonable Soul, and those inferior ones of a Sensitive: I shall only in brief, and analytically recount to you a few of those many Excellencies and Prerogatives essential to the former, and by the law of nature incommunicable to the leter.

The Preeminence then of Mens Reasonable Soul is undeniably manifest from both

her Objects, and her Acts.

Her Objects are all things whatfoever, true or false, real or imaginary, within Manifest or without the World, sensible or insensible, infinite or finite: for to all these can she extend her unconfined power of speculation. I doubt indeed, whether it be possible for her in this life, while she is obliged to speculate all things by the help of images, or corporeal representations, to have an adequate, and full cognition of the superexcellent nature of

God:

God: But yet it cannot be denied, that she is capable of knowing for certain, that there is such an incomprehensible Being as God, and that He is Infinite and Eternal. I doubt also, whether the Mind of Man be capable of any true notion of an Angel, Spirit, Damon, or other the like Beings which the Schools commonly (how intelligibly, let others dispute) call immaterial Substances; because I my self can represent to my Thoughts nothing but under some certain figure and quantity, which are inseparable from body: And yet who dares deny th' Existence of such Beings in the World? To speculate such objects then, as fall not under the perception of any of the Senses, is the prerogative of a Rational Soul: nor can a Sensitive possibly have any knowledge of things above the sphere of her own nature; all her faculties being corporeal; and by consequence limited to corporeal objects, and those too no other than what are perceptible by the senses.

Art. 3. And A&s. Her Asts also equally declare her transcendent Powers. That Act of simple apprehension, which in Brutes is Imagination, is in Man Intellection: and the intellect presides over imagination, discerning the Errors of it occasioned by the senses, and correcting them; yea subliming

ming the notions thereof into true and useful ones. And as for forming of Propositions, by compounding or dividing the simple notions of sensible things; that power is indeed common to the Sensitive Soul also, and usually exercised by her, when an image of some object newly admitted, meets with one or more images either formerly stored up in the Memory, or at that instant suggested by natural in-Stinct; and is found affociable, or repugnant to them: but yet the same falls incomparably short of that which belongs to the Human Intellect. Which doth not only review all propositions conceiv'd from the Phantasy; but judges also whe-ther they be true or false, congruous or incongruous; and then orders and disposes them accordingly into trains of notions convenient either to Speculation, or to Practice. Moreover, it restrains the Phanasy, of itself instable and prone to ramle through various phantasms; calls it way from extravagant and useless coneptions, directs it to others more conform to reason, and at pleasure confines t within certain bounds, that it may not livert, or rage too wide from the purose. All which Acts give clear evicence, that there is in Man a Soul supeciour to the sensitive, and which mode

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rates and governs all the faculties and operations of it: yea, more yet, which from representations sensible deduces many other notions of things altogether unknown to sense, and which the Phantasy is of itself wholly incapable to imagine. For, it understands Axioms, or first principles, and that by his own power alone. without recourse to corporeal species: and (what is yet more noble and sublime) by a reflex act views itself, thinks that it thinks, from thence certainly knowing its own Existence, which cannot be either perceived by sense, or imagined by Phantasy. Whereas neither the Sense, nor Imagination (for of these there are no images extant) can perceive that they perceive, or imagine. To these royal prerogatives of Mans Rational Soul, let us subjoyn the native right she hath to the whole Encyclopædia or Zodiac of Arts and Sciences; Theology, Logic, Physic, Metaphysics, Mathematics, Algebra, Geometry, Astronomy, Mechanics: which being all (Theology alone excepted) the products or Creatures of Mans Mind, sufficiently attest their Author to be an Agent Spiritual, admirably intelligent, immaterial, and therefore immortal.

Now if this be true (as most certainly it is) then one of these two Assumptisoul of Man doth alone perform all offices not only of understanding and discourse, but of sense also, and life; and so administer the whole oeconomy of Human nature. Or else there are in every individual Man two distinct Souls conjoined, and acting together: one, only Rational; tother merely Sensitive; that as Queen regent, this as inferior and subordinate.

The FIRST seems to me not a little

improbable.

For, (1.) All Acts of the Senses, and Art. 4. animal Motions, as likewise the Passions, Life and are corporeal, divided and extended, to pend not various parts: and therefore the Rational on the Ra-Soul, which we conceive to be incorpo- of Man. real, indivisible and finite, seems incapable to cause or impress those motions immediately, or by herself. To me (I confess) it seems Unintelligible, how an incorporeal Agent not infinite, can physically act in, and upon a gross body immediately, or without the intervention of third thing; which though corporeal too, is yet notwithstanding of parts so pirituous, and of a constitution so subtil, as to approach somewhat nearer to the nature of a pure Spirit, than solid and ponderous body doth. Flame, and

E 2 light

light I acknowledge to be bodies; but yet methinks there is less of disproportion, or disparity betwixt them and a substance purely spiritual, than is betwixt a pure Spirit and a gross, heavy body, such as ours is. And therefore in my weak judgment, it is more conceivable that the Reasonable Soul should have some spirituous, and subtile thing as slame, or light is, viz. the Sensitive Soul, conjoyned with her, to be a convenient Medium betwixt herself and the gross body, to receive her immediate influence, and actuate the body according to her will and pleasure: than it is, that she should immediately move and actuate the body, betwixt whose nature and her own there is great disparity.

doctrine of the School-men, that in Manthe Sensitive Soul is eminently contained in, and (to use their very term) as it were absorpt by the Rational; so that what is a Soul in Brutes, becomes a mere Power or quality in Man: this I think (as many other of their superfine distinctions do) sounds like nothing put into hard words. For, how can it be imagined possible, the eternal law of nature should be for far violated, as that a substance should be changed into an accident? that the Sen-

and which they themselves allow to be actually existent in the body, before the infusion of the Rational; should upon accession of the Rational, lose its former essence, and degenerate into a naked Quality? This is (I profess) a Mystery much

above my comprehension.

Soul doth, at her entrance into the body, introduce life also, and sense; and so there is no need of any other Principle of life and sense, where she is: then must it be granted, that Man doth not generate a Man animated, or endowed with life and sense; but only an inform body, or rude mass of slesh. And how absurd that would be, I leave to your judgment.

These Reasons discovering the impro-And there-bability of the first Assumption; what fore he can remain to hinder us from embracing seems to have also a the OTHER, viz. that there are in sensitive every individual Man, two distinct Souls, Soul. coexistent, and conjoin'd; one by which he is made a Reasonable creature, another by which he becomes also a living, and Sensitive one? Especially since the truth of this seems sufficiently evident even from that $4u\chi o\mu a\chi ia$, or civil war too frequently hapning betwixt these

twins, which every Man sometimes feels

E 3

in

in his own breast, and whereof the holy Apostle himself so sadly complain'd. For, this intestine War, seeing it cannot arise from one and the same thing possessed with affections mutually repugnant, and inclining us two contrary waies at once; argues a Dunnvir ate of Rulers reciprocally clashing, and contending for superiority; and such too that are as remote in their Natures, as different in the modes of their Sublistence.

Upon this War depend all the Passions That there by which the restless Mind of Man is so are in eve-variously, and many times also violentdual Man ly agitated, to his almost perpetual dissouls coex- of it depends all the happiness, or migued from sery of not only his present life, but that War obser which is to come. To enquire there-ved be- fore a while into the Grounds and Reason's

twixt them of this fatal discord; will be neither doss of time, nor digression from our

purpose.

of that

War.

That Man then is endowed, as with The Causes two distinct faculties of Knowing, viz. Understanding, and Imagination; that proper to his Rational, this to his Sensitive Soul: so likewise with a twofold Appetite, viz. Will, which proceeding from is Intellect, is immediate attendant of the Rational Soul; and appetite Sensitive

which cohering to the Imagination, is as it were the factor or procurer to the Corporeal Soul: is the common doctrine of Plato and Aristotle, to this day read and afferted in the Schools; nor ought it to be rejected. But then it must not be so understood as if the Rational Soul herself, which seems to be immaterial, and consequently exempt from passion, were upon every appulse of good or evil objects, subject to all the turbulent affections of desire or aversation: for, this would be manifestly repugnant to the excellency of her spiritual nature, and inconsistent with her dignity and superintendency over the inferiour Powers. Affections the hath indeed of her own, such as are competent and proper to her semi-dia vine Essence. It is not to be doubted, but that in the contemplation of true and good, and chiefly of what is supremely both true and good, the Deity; as likewise in works of benisicence, in the cognition of things by their causes, in the exercises of her babits as well the contemplative, as the practical; and in all other her proper acts, the Reasonable Soul feels in herself a very great Complacency 3 198 on the contrary, the want of these doth affect her with as great Displeasure. Nor is it to be doubted, but our love of God, and E 4

and all other real goods; and our detestation of vices and vicious Men; as also all other pure and simple affects arifing and continuing without perturbation or disquiet, belong only to the Reasonable Soul, which (to use the elegant simi-le of Plato) seated in a higher sphere of impossibility, like the top of mount Olympus, enjoys perpetual serenity: looking down the while upon all tumults, commotions and disorders hapning in the inferior part of Man; as that doth upon the clouds, winds, thunders, and other tempests raised in the air below it. But as for all vehement affections, or perturbations of the Mind, by which it is usually commoved, and inclined to this or that. fide, for profecution of good, or avoidance of evil: these certainly ought all to be ascribed to the Corporeal Soul; and feem to have their original in the seat of thailmagination, probably the middle of the brain. Nevertheless, for that the Intellect, as it reviews all Phantasms formed by imagination, and at pleasure regulates and disposes them; so it not only perceives all concupiscences, and tempelts of passions used to be stirr'd up in the imagination, but also (while it free-ly exerciseth its native power and jurisdiction) moderates, governs, and gives Ver 2

law to them: for these reasons, when the Rational Soul approves some, and rejects others; raiseth some, and composes others of those passions, and directs them to right ends; she may also be said, by fuch her dictates, to exercise acts of Will, as Arbiter, and to will or nill those things, which the Sensitive Appetite defires or abhors by her permission or command.

But yet this empire of the Rational Art. 8. Soul is not so absolute over the Sensitive, wherein when this proceeds to Appetite, as when sometimes it is imployed about the discernment and tive appearance. Knowledge of sensible objects. For, the tite pre-Sensitive being much nearer allied to the body, and immediate Guardian therof; is by that affinity and relation obliged to addict itself altogether to the gratification, welfare and conservation of the same. And that this province may be more grateful and agreeable to so delicate a Governess, she is continually courted and presented by all the Senses with variety of blandishments and tempting delights. So that charmed by those powerful enchantments of sensible objects, and intirely taken up with care of the body, and in that respect prone to pursue pleasures; she too often proves deaf to the voice of Reason, advising the contrary, and refuses

to be diverted from her sensual to nobler affections.

Yea sometimes grown weary of subjection, she takes occasion to cast off her yoke of allegiance, and like a proud and insolent Rebel, aspires to unbounded license and dominion. And then, then it is we feel those Twins strugling within us, that intestine War betwixt the Flesh and the Spirit, that dire conflict of the Sensitive Appetite with Reason; which distracts one Man into two Duellists, and which ceaseth not, till one of the Combatants hath overcome and brought the other to submission. And (what is yet more deplorable) the event of this combat is often so unhappy, that the nobler part is subdued and led captive by the ignoble: the forces of sensual allurements then proving too strong for all the guards of Reason, though affisted by the auxiliary troops of Moral precepts, and the facred institutes of Religion. When the divine Politie of the Rational Soul being subverted, the whole unhappy Man is furioufly carried away to serve the brutish lusts of the insolent Usurper, and augment the triumphs of libidinous carnality: which degrades him from the dignity of his nature, and caffating all his royal prerogatives, debases him to a parity with

with beafts, if not below them; for, Reason once debauch'd so as to become brutal, leads to all forts of excess; where-

of beasts are seldom guilty.

Yet this is not always the issue of the Art. 9.
War. Sometimes it happens that the times the victory falls to the right side; and the Rational. Princess over-powing the Rebel, reduces her to due submission and conformity. Nay sometimes Reason, after she hath been long held captive, breaks off her fetters; and remembring her native Soveraignty, grows conscious and ashamed of her former lapses: and thereupon with fresh courage and vigour renewing the conflict, vanquishes and depo-ses the Sensitive Soul with all its legions of lusts, and gloriously re-establishes herself in the throne. Yea more, at once to secure her empire for the future, and expiate the faults of her male-administration in times past; she by bitter remorse, severe contrition, and sharp penance, punishes herself, and humbles her traitorous Enemy the Flesh. And as the War itself, so this act of Conscience, this selfchastising affection, being proper to Man alone; doth clearly shew, that in Man there are either two Souls, one subordinate to the other; or two parts of the same Soul, one opposing the other, and contending

about the government of him and his affections. But which of these two consequents is most likely to be true, you may have already collected from my difcourse precedent.

It remains then, that I give you some account of the Opinions, or rather Conjectures of Men (for they can be no other) which seem to me most probable, concerning the Origin of the Reasonable Soul; concerning the principle feat of it in the body; concerning its connexion with the Sensitive Soul; and concerning the manner of its Understanding.

Art. 10. That the Rational Soul is creadiately God.

For the First, if the Rational Soul be a pure Spirit. i. e. a simple or incompound substance; as I have already shewn her ted imme-proper acts, affections and objects feem to by infer, and as most wise Men, ancient and modern, Ethnics and Christians, Philosophers and Theologues have unanimoully held her to be: and if it seem inconsistent with the purity and simplicity of such a Being, to be generated by the Parents, who are compound Beings, as reason teacheth us it is: granting this, I say, nothing can remain to divorce me from that common opinion which holds, that the is created immediately by God; and infused into the body of a human Embryon, so soon as that is organized, formed and prepared to receive her. For,

For, as to that grand Objection, that Art. 11. the Son oftentimes most exactly resembles blance bethe Father, not only in temperament, twixt Fa-shape, stature, features, and all other son, impu-things discernable in the body; but in ted to the disposition also, wit, affections, and the Sensitive rest of the Animal faculties: and therefore it must needs be, that the Father begets the Rational Soul, as well as the body: it is easy to detect the weakness thereof, in the violence of the illation. Since all those endowments and faculties wherein the chief similitude doth confift, proceed immediately from the Corporeal Soul, which I grant to be indeed Ex traduce, or propagated by the Father; but not the Rational, which is of Divine Original.

For the Second, viz. the Rational Souls Art. 13. chief seat or Mansson in the body, tho' I The Rational Souls cannot conceive how, or in what manner nal Soul an immaterial can reside in a material, that part of because I can have no representation or the brain which idea in my mind of, any such thing: yet serves to nevertheless when I consider that all im-Imaginatipressions of sensible objects, whereof we are any ways conscious, are carried immediately to the Imagination; and that there likewise all Appetites, or spontaneous conceptions and intentions of actions are excited: I am very apt to judge

the

the Imagination to be the Escurial, or imperial palace of the Rational Soul, where the may most conveniently both receive all intelligences, from her Emissaries the senses, and give forth orders for government of the whole state of Man. That the whole Corporeal Soul should be possessed by the Rational, seems neither competent to her Spiritual nature, which is above Extensibility; nor necessary to her Empire over all: no more than it is necessary for a King to be present in all parts of his dominions at the same time. And if she be as it were inthroned in any one part thereof; what part so convenient, so advantagious as the Phantasy, where she may immediately be informed of all occurrents in the whole body, and whence she may issue forth mandates for all she would have done by the whole, or any member thereof? I think therefore, I may affirm it to be probable, that this Queen of the Isle of Man hath her Court, and Tribunal in the noblest part of the Sensitive Soul, the Imagination, made up of a select assembly of the most subtil Spirits Animal, and placed in the middle of the Brain. As for the Conarion, or Glandula pinealis seated near the center of the Brain, wherein Monsieur Des Cartes took such pains

pains to lodge this Celestial Ghest; all our most curious Anatomists will demonstrate that Glandule to be ordained for another, and that a far less noble use, which here I need not mention.

For the Third, to wit, what obligeth the Art. 13.
Rational Soul to continue resident in the And there connexed to Imagination during this life; truly I can the Sensitive by the not think either that she is capable of, or tive by the that she needs any other ligament or tye, Creator. than the infringible Law of Nature, or Will of her Divine Creator: who makes and destines her to reside in the Body of Man, to be his Forma informans; and gives her therefore a strong inclination to inhabit that her Inn or Lodging; ordaining her to have a certain dependence, as to her operation, upon the Phantasy, so that without the help and subserviency thereof, she can know or understand little, or nothing at all. For, it is from the Imagination alone that The takes all the representations of things, and the fundamental Ideas, upon which she afterward builds up all her Science, all her Wisdom. And therefore though the Mind of one Man understands more, and reasoneth better than another; it doth not thence follow, that their Rational Souls are unequal in their natural capacity of understanding and discourse: because the disparity proceeds immediately from difference

rence of Imagination, mediately and principally from the various dispositions of the Brain. For, when the Animal Spirits, being either of themselves less pure, subtil and active than is requisite, or hinder'd in their expansions and motions, are not able duly to irradiate and actuate the Brain affected with some Distemper, or originally formed amiss: in such case, the Phantasms created in the Imagination, must be either desicient, or distorted; and the Intellect being obliged to judge of them accordingly, must be misinformed. Hence it often happens, that by reason of some Wound, Contusion, or other great Hurt done to the Brain, Men who formerly were of acute Wit, and excellent Understanding, are more or less deprived of those noble Faculties, and degenerate into mere Fools or Ideots. For, the acquiring, and losing the habit of Intellection and Ratiocination, depends totally upon the Brain and Imagination, the corporeal Subject thereof: but the Intellect it self, since it hath no parts; cannot be perfected by parts; being from the beginning, and of its own nature, a full and perfect power of Understanding. Nor doth it, by accession of any whatever Habit, understand more; but is it self rather a Habit always comparated to understand. And in truth the

the principal Function of the human Intellect seems to be this, that it be of its own nature merely intelligent, that is knowing things, not by ratiocination, but by simple intuition. But during its confinement within the body, it is surrounded with that darkness, that it doth not simply, nakedly, and it were by way of intuition perceive all things which it understands; but attains to most of its knowledge by reasoning, that is, successively, and by proceeding as it were by degrees. If therefore the Organ or instrument, by the help of which the Intellect is obliged to ratiocinate, or gradually to attain to the knowledge of things, be unfit, or out of tune: no wonder if it be not able to make good Musick thereupon.

Concerning the Fourth and last thing Art. 14. therefore, namely the Manner how this how she Unintelligible Intellect of man comes to exerciseth know, speculate and judge of all Phantasms her facul-tor images pourtraid in the Imagination: ing of the II can much more easily guess what it is not, images of things tthan what it is. I am not inclined to e-formed in spouse their conceit, who tell us, that the the Imagi-Rational Soul sitting in the brain, some- seems to be where near the original of the nerves be-inexplicable. longing to the Senses (as a Spider sits watching in the centre of her net) and feeling all strokes made upon them by the

Species of sensible objects, distinguishes and judges of their several qualities and proprieties, by the different modes of their impressions. Because, the supposition of a percussion, or stroke to be made by a Corporeal image, is manifestly repugnant to a Faculty incorporeal. But whether or no I ought to acquiesce in that other opinion delivered, and maintained by a whole Army of Contemplative Men, viz. That the Intellect knows and discerns things by simple Intuition, i. e. by beholding their Images represented in the Phantasy, as we see our Faces represented in a Mirror or Looking-glass truly I am yet to learn from wiser Heads than mine. For, though Ladmire the subtilty of the conceipt, and love not to be immodestly Sceptical, especially in matters that transcend my narrow comprehension: yet, to speak ingenuoully, I as little understand how Intuition can be ascribed to an immaterial, that hath no Eyes; as I do how Feeling of frokes can be ascribed to a thing that cannot be touched. Nevertheless I will not point blank deny this latter Opinion to be true, only because I cannot perceive the Competency of such an act as Intuition to the incorporeal Soul of Man: for, that were to make my scanty Reason the measure of Truth; and to confide more in my own dulness,

dulness, than in the admired perspicacity of so many eminent Wits preceding me. Wherefore having confess'd my Ignorance, I refer the matter to your arbitration; allowing you as much time as you shall think fit, seriously to consider the same; and in the interim contentedly sufpending my curiofity, which hath too often perplexed me. For, hitherto could I never drive it into my head, how those terms of infusion, connexion, and intuition, can be intelligibly applied to a spiritual, or incompound essence, such as we conceive the Reasonable Soul to be; and if I have used them in this Discourse, it was rather because I could think of none less improper, than because I approved them as adequate to the notions to which they are vulgarly accommodated. Besides, I hold it extremely difficult, not to speak some Nonsense, when we adventure to treat of the nature of Spirits, whereof we understand so little: and you (I presume) will trather pity, than condemn a Man for stumbling in the dark. But I have too long dettain'd you upon Preliminaries: and there fore deprecating your impatience, invite you now from the Porch into the little Theatre of the Passions, which I design'd to erect more for your divertisement, than Mudy.

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SECT. IV.

Of the Passions of the Mind in general.

Aking it for granted then, from the reasons precedent, that in Man, besides the Rational Soul, by which he becomes a Reasonable creature, there is also a Sensitive one, by which he is made a living and Sensitive creature; and that this later being merely Corporeal, and coextens to the body it animates, is by the law of its nature subject to various Mutations: I come in the next place to consider what are the most remarkable of those Mutations; and the Causes whence they usually arise; as likewise the principal effects of them upon the body and mind of man.

Art. I. A two-fold there is a twofold state or condition of his state of the Sensitive Soul; one of quiet and tranquilling Soul; viz. ty; another of disquiet and perturbation: of tranquil-every man living finding his spirit sometimes calm and serene, sometimes agitated

and ruffled more or less by the winds

and tempelts of passions raised within him.

In the state of Tranquillity, it seems probable that the whole Corporeal Soul being coextens to the whole body inshrining it (as the body is to the skin investing it) doth at the same time both inliven all parts with the vital flame of the blood, to that end carried in a perpetual round (as the vulgar conceive the Sun to be uncesfantly moved round about the Earth, to illuminate and warm all parts of it) and irradiate and invigorate them with a continual supply of Animal spirits, for the offices of Sense and Motion. And this Halcyon state certainly is the only fair weather we enjoy within the region of our breast, and the best part of human life

On the coutrary, in the state of Perturbation, all that excellent Oeconomy is more and Peror less discomposed. Then it seems that
the same frail soul is so strongly shock'd
and commoved, that not only her vital
part, the blood, the calm and equal circulation being interrupted, is forced to undergo irregular sloods and ebbs, and
other violent sluctuations; but the Animal spirits also, impelled to and fro in a
tumultuous manner, cause great disorders
in the functions of sense and motion; yea

F a more,

more, by their exorbitant manner of influx into the Nerves of the Heart and Lungs, they move them irregularly, and so contribute to render the Course of the Blood yet more unequal. Nor doth the Tempest stop here; it extends sometimes also to other Humors of the Body, to the solid parts and members of it, and even to the discomposure of the Reasonable Soul her self.

Art. 3. The first, most observable in fleep, and jects appear indifferent.

The Tranquility of the Sensitive Soul is easily observable in sleep, when the Spirits are bound up, or at least at rest; and vewhen ob- ry often also when we are awake, namely, whensoever the Objects affecting the Sense, or created in the imagination, appear to import neither good, nor evil to us, and we are no further concerned than barely to apprehend and know them. For, then they smoothly and calmly slide into the common sensory and imagination, and soon pass away without any the least disquiet or commotion of the appetite.

The other,

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The Perturbation of it is as easily manimanifest in fest in all the passions, which are the conseall Passims, quents of desire, or of aversation. For, when any object is represented under the appearance of good or evil to us in particular; instantly the Sensitive Soul is moved to embrace, or avoid it; and imployes not only the Animal Spirits, her Emissaries,

ries, but the blood also, and other humors universally diffused through the body, and even the solid parts too, as instruments to effect her design. More plainly; when the Imagination conceives any thing to be embraced as good, or avoided as evil; presently by the spirits residing in the brain, and ranged as it were into order, the Appetite is formed: and then the impression being transmitted to the Heart, according as that is contracted or dilated, the blood is impelled and forced to various fluctuations, and irregular motions: and thence the Appetite being by instinct transmitted to the nerves ordained for that use, they cause motions of the solid parts respective thereunto. And this we may conjecture to be the order of motions excited successively in the phantasy, spirits, blood and solid parts, in every Passion of the mind of what fort soever. Nor can it indeed fink into my dull head, by what other means of mutual intercourse, besides such a quick transmission of spirits first from the brain into the Pracordia, and thence back again to the brain, by nerves to that end extended betwixt those sources of life and sense, the great and speedy commerce in all passions observed to be maintained between them, can be effected.

Bct

But however this admirable Commerce

Art. 5. That in the state of Titive Soul Contraction One

may be otherwise explained, it is lawful Perturbati- for us to conceive, that the Sensitive Soul, on, the Sen- when put into this state of perturbation, varieth her doth strangely vary her Postures, accor-Gestures, by ding to the diversity of motions caused in or Expansi- her: and though that diversity be very great, yet that in all perturbations whatever, she is more or less amplified, so as to swell beyond her ordinary bounds; or more or less contracted within herself, so as to be less extense or diffused, than usually she is at other times, in her state of tranquillity: as will be exemplified in all the passions we design particularly to describe. Mean while it is observable, that sometimes she being affedted with Joy or Pride, and as it were exulting above measure doth advance and expand her self, as if she strove to be greater, and to stretch her gandure beyond the narrow limits of the body. Whereupon the Animal Spirits being respectively commoved in the brain, enlarge the sphere of their irradiation, and by a more abundant influx vigorously agitate the Pracordia or vital parts, so forcing the blood to flow more copiously into all parts, and to diffvse it self more freely and speedily through the whole body. On the contrary, sometimes being surprised with grief, or fear, she contracts her self into a narrower compass 5

compass; so that shrunk up to a scantling less than her usual circuit of emanation, she becomes of too small a size vigoroufly to actuate the body as she ought. Whence the Animal faculties drooping as it were, perform their actions either flowly and weakly, or perverily: and the Pracordia wanting their due influx of spirits, almost flagg, fuffering the blood to remain in their conduits longer than it ought, even to danger of stagnation, and consequently of sudden death. These two contrary Motions therefore of Contraction and Expansion, I suppose to be the two General ones, to which all the various Postures of the Sensitive Soul, when she is perturbed, may be commodiously referr'd: it seeming to me, considering her to be exactly like a Flame, and obnoxious to the like accidental mutations, that she is not naturally capable of other besides these; and that how great soever the variety of fuch her Mutations may be in the vast diversity of Passions, yet they are all but se-Art. 6. veral degrees, and divers modes of either her moved to Extension, or Contraction.

Good or This being then supposed, I proceed to Evil, but the first and General Causes of all Passions. only when Where I observe first, (what was only we conceive the hinted a little afore) that it is not the sim-same to ple representation of good or evil in any concern our object, particular,

Paffion, by

object, how great soever it be, that is sufficient to raise Commotion in the sensitive Soul; for, we usually, without perturbation, behold the prosperous or adverse events befalling other Men no waies related to us: and therefore it is further required to the moving our affections, that the good or evil apprehended, be by us conceived to concern ourselves in particular, or our Friends at least, and near relations, who in this case are part of our selves. Secondly, that even that good or evil wherein a Man conceives himfelf to be concern'd, is not always apprehended by him under one and the same ration or aspect; but variously, aswell in respect of the object itself, as of the Subject to which it doth more peculiarly and immediately appertain. Of the divers rations under which one and the same object, good or evil, may be apprehended by one and the same Man respectively to the various circumstances thereof; we shall more opportunely speak anon. And as for those that respect the Subject, or Man apprehending; it is worthy our serious remark.

Art. 7. All Paffions distinguished-in-Metaphysieal, and disoral.

That all Good or Evil represented to to Physical, Man, doth concern the Sensitive Soul, either as she is distinct from the body, and abstract from all relation; or as she is in-

timately.

timately conjoyn'd to the body, and interressed therein; or finally as she is sub-ordinate to the Rational Soul. For, though every Affect or passion be founded in the Corporeal Soul, yet it always respects the good or evil of one or other of these three subjects; and is first raised on the behalf of this, that, or the other. Wherefore according to this triple relation of the Sensitive Soul, all Passions incident thereto, may be said to be either Physical, or Metaphysical, or Moral: of which in their order.

1. Passious meerly Physical, or which Art. 8. What are properly belong to the Sensitive Soul alone, passions are those natural and occult inclinations Physical. and aversations commonly call'd Sympathies and Antipathies, whereby one Man, more than another, is not only disposed, but even by secret impulse forced to affect, or diflike such or such a perfon, or thing, without any manifest cause or inducement so to do. Of Sympathies betwixt Persons there is great variety of Examples, especially in Lovers; among whom many are not allured by that grand bait of the Sensitive Soul, Beauty; but strongly attracted, and as it were fascinated by they know not what hidden Congruity, or (as the French call it) agreeableness of spirits: which enchains them

them so firmly to the persons beloved, that notwithstanding the deformities they see and acknowledge to be in them, yea and the contempt they sometimes receive from them, they still doat upon, and with delightful submissions court and adore them. And as for Antipathies as well toward Persons as things; instances of them also are without number, and many shew themfelves at our very Table. Where one Man abhors a Breast of Mutton, yet loves the Shoulder cut from it; a second swoons at the light of Eels, and yet will fealt upon Lampreys or Congers; a third abominates Cheese, but is pleased with Milk; a fourth detests rosted Pigg, yet can make a Meal upon Bacon. This Man sweats at presence of a Cat; that falls into an agony by casting his eye upon a Frogg or Toad; an other can never be reconciled to Oysters. Nay more, there are who feel themselves ready to faint, if a Cat be hidden in some secret place of the room wherein they are, though they suspect no such encountre of their natural enemy, till they are wounded with the invisible darts or emanations from her body. And all these admirable Effects proceed not from any politive Evil or malignity in the things abhorred; for, what's one Mans meat, is an others poylon:

poyson: but only from their incongruity, or occult Enmity to this, or that particular Sensitive Soul. For if at any time it happens, that the consistence of Animal Spirits that constitute the lucid or Sensitive part of this Soul, be by the encountre of any object, put into great disorder: The ever after abhors the approach, or effluvia of the same. Whereas the Congruity of particles proceeding from an object, to the contexture of the Soul, is on the contrary the ground of all her se-

cret Amities.

2. Passions Metaphysical, or which Art. 9.
Seem to have their first rise from, and what Metaphysical. principally to relate to the Rational Soul, are those which Divines call devout and religious Affections directed to objects Supernatural, and chiefly to God. For, when our nobler Soul reflecting upon the excellency and immortality of her nature, aspires by sublime speculations toward her supreme felicity, the contemplation and love of her Creator; and determines her Will to pursue that incomprehensible, because infinite subject of all perfections, which alone can satisfy her understanding with light or knowledge, and her will with love: she doth not only exercise herself in simple and abstracted conceptions, such as are proper

to her immaterial essence alone, and conformable to the dignity of the thing the speculates; but communicates her affects also to the Sensitive Soul, by whose subordinate motions she is obliged to act respectively to her end. And these motions or acts being thus traduced from the superiour to the inferior Soul, and thence derived first to the brain and imagination, then to the heart; produce therein, and so in the blood, the various motions that constitute such Passions, as we observe in our selves, when we are most ardently urged to acts of devotion and piety toward the supream Being. Whence it is doubtless, that Divine love, detestation of sin, repentance, hope of Salvation, fear of incensing Divine justice, and most, if not all other acts (or passions) of devotion are commonly ascribed to the heart: and that not without some reason. For, though I cannot admit the heart to be the Seat of the Passions, as the Aristoteleans unanimously hold it to be, only because of the sensible alterations therein produced in most passions; since in truth those alterations are rather consequents, than causes of Passions; and since they are not felt by us in the heart, but only by means of the nerves descending thither from the brain; as pain

is not felt as in the foot, but by intervention of nerves betwixt the foot and the brain; and as the Stars appear to us as in heaven, by meditation of their light affecting our Optick nerves. So that it is no more necessary the Soul should ex-ercise her functions or receive her passions immediately in the Heart, only because she feels her passions therein; than it is she should be in Heaven, because she sees the stars to be there; or in the foot, because pain appears to her to be there. Notwithstanding this I say, yet the adscription of these devout Passions to the heart, is not altogether destitute of reason. For, (for instance) when the inferiour Soul is commanded by the Superior, to humble, and as it were to prostrate herself in adoration of the sacred Majesty of God; instantly both parts thereof, as well the Sensitive, as the Vital, are forced to repress and restrain their wonted emanations or effusions. Whereupon the Animal Spirits being in whole legions withdrawn from ministring to the Imagination and Senses,
are by the nerves transmitted in crowds
to the heart: which while they closely contract and shut, they cause the blood to remain longer than usual, in the cavities thereof, and by that means keep 75

it both from being too much kindled in the Lungs, and from being sent from the heart in too great abundance into the rest of the body, and more especially into the brain; as if Nature itself had instituted, that in sacred passions the blood, or principal feat of life, should be offered up to the Author of life, upon the alter of the heart, while the brain, or seat of reason, is kept serene and clear. Nor is it difficult to a Man praying to Almighty God with fervency of Spirit, to observe in himself, that his blood is more and more arrested and detained within his breast the while; insomuch that his heart feems to swell, his lungs to be opprest, and he is forced frequently to interrupt his Oraisons with profound fighs, for attraction of fresh aer: as if the reasonable Soul not content to devote herself alone, and pour forth her holy desires to God, laboured to make a libation also of the vital blood, for a propitiatory oblation. So that though the Soul cannot in strictness of truth be said to receive her passions in the heart; yet since the alterations caused in us by them, are greater and more sensible in the heart, and consequently in the blood, than in any other part of the whole body beside: I am not so addicted

dicted to vitilitigation, as to contend about the propriety of those expressions in Scripture, which seem to ascribe all our sacred passions principally to the heart.

3. And as for Passions Moral; I refer Art. 10. to their classis all those that are excited And what in the Sensitive Soul, upon her percep- Monal. tion of such good or evil objects as concern her confederate the Body, with which she is most intimately conjoyn'd, and upon whose welfare her safety doth necessarily depend. Concerning these in general, it is remarkable, that though the Sensitive Soul hath secret loves and aversations of her own, commonly called (as we have already faid) Sympathies and Antipathies; and though the owes obedience to the commands and, dictates of her superior, the Rational Soul: yet being by so strict a ligue, and as it were a conjugal union affianced to the body, she is strongly inclined to prefer the conservation of that her favorite, to all other relations; and accordingly to gratify and indulge it even in those things that are prohibited by religion and reason. So that no wonder if she be affected with pleasure, or pain, and with all other passions referible to them, for the prosperous or adverse state of the body.

To make this our entrance into the spring-head of all Passions somewhat more lightsome; we are here to recount two fundamental verities, both of so conspicuous evidence, I do not remember, I ever heard them contradicted.

Pleasure or Pain,

Art. 11. One is, that all Affects which external ons refer- objects can possibly excite in us, in respect of the various modes or manners by which they fall under our notice, may be commodiously referred to two general heads, namely Pleasure, and Pain. For, whatever is perceived by the Senles, appears to the Soul to be Good, or Evil, grateful, or offensive; and what-ever is offered to her under the appearence of Good, or Grateful, instantly causeth some certain Pleasure in her: as on the contrary, whatever is represented to her as Evil, or offensive, as quickly raiseth in her some kind of Pain, or trouble: provided (as was before advertised) she apprehend herself to be any way concerned in fuch good, or evil. So that we cannot but applaud the judgment of Epicurus and Aristotle in constituting but two kinds of Passions, namely Pleasure and Pain: the one calling them issovin & anyusiona, voluptatem & dolorem; the other naming them howing whir, voluptatem & molestiam. The

The other is, that all the various mo- Art. 12. tions of the Spirits and blood, or of the their Moti-Sensitive Soul, excited in the various ons, to Con-Passions, may likewise be conveniently and Effuréduced to two general heads, namely sion. Contractions, and Effusions; which our Master Galen, I remember, terms zusanas, and Pleasure. Because in Pleasure, the Soul dilateth herself as much as she can that is, she diffuseth the Spirits, as her Emissaries, to meet and receive the good represented to her: and in Pain, she on the contrary compresseth or withdraws herfelf inward, that is, the recalls the Spirits toward herself, in avoidance of the Evil apprehended.

Manifest it is therefore, that all Corporeal Passions have their roots grounded in Sense, whereof pleasure and pain are two opposite affects? One, πάθος direior, agreeable and familiar to nature; the other, and offensive.

'And that I may, as far as I am able, Art. 13. explain wherein pleasure and displeasure of Wherein sence doth consist; I take liberty, to sup-pleasure pose, that at first when an object affects and displeasure of the Sensory with soft and smooth tou-sense. ches, or motions, such as are consentaneous to the delicate contexture of the nerves of which the sensory is chiefly compoled,

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posed, or to the internal motions of the spirits therein residing; it instantly caufeth that grateful sense called delight: as on the contrary, if the object invade the sensory with asperity, or violence, such as hurts the tender nerves thereof, or hinders the natural motions of the spirits therein; then it produceth that ingrateful sense call'd displeasure or pain. The impression being thus made by the object upon the Organ of sense, and thence by a certain motion of the spirits resem-bling the waving of water, carried on to the brain; if, it be pleasant, it immediately puts the spirits therein reserved, into brisker, but regular motions conformable to their nature and uses; if displeasing, it puts them into consusion. If the impression be light, the motion thereby caused in the brain, soon decayeth, and vanisheth of itself: if strong, the motion is continued from the brain down to the breast, and the heart and blood participate thereof respectively; and so passion instantly succeeds. But whether this be the true manner of objects producing pleasure, or displeasure of sense, or not, most evident it is, that we have, as no conceptions of things without us in the brain, so no passions for them in the heart, but what have their first original from Sense.

Now having in this manner shewn as Art. 14. plainly as I could, (1) What Mutations are incident to the Sensitive Soul. (2) heads What are the most considerable Causes handled in of those Mutations. (3) What the most remarkable Effects and consequents of them upon the Body and Mind of Man. (4) The Differences of Passions respective to the various Relations of the Sensitive Soul to the Rational, and to the body. (5) That all passions are referible to pleasure, or pain. (6) That all Motions of the Spirits and blood caused in passions, belong to Contraction, or Effusion: and, (7) Wherein consist pleasure and displeasure of Sense: our next work must be to speak.

SECT. V.

Of the Passions in particular.

Mind of Man, which were ex-why Men tremely difficult, if not altogether impossible have not been able to observe that raise pleasure and displeasure are in-all Passions numerable; and the various ways or the Sensimanners by which they affect the Sense, tive Soul.

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and

and excite motions in the brain, spirits and heart, are equally innumerable: even those Philosophers themselves who have with all possible attention of mind laboured to search out the several sorts of Passions, have not been able to take notice but of very few, nor to give names to all those neither. Besides, considering of how subtil particles, how fluid and easily moveable a substance, and how delicate a contexture the Sensitive Soul seems to be composed; we may soon conceive her to be subject to greater variety of impressions, commotions, fluctuations, inclinations, alterations and perturbations, than can possibly be observed and distinguished even by the most curious. It may well suffice then to enumerate and describe the most remarkable. of her Passions, such as like so many Jesser streams, flow from the two general fountains before mentioned, Pleasure and Displeasure of sense; or motions begun in the sensory, traduced to the brain, and continued to the heart; and that are of a more simple nature.

The Paffions best distinguished by ha-

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ving respect to the

Art. 2.

stances of Time.

Which that we may perform with more of order, and less of obscurity; we are to consider that the Passions receiving

their most notable diversity from certain

circumstances of Time, may therefore be most intelligibly distinguished by having respect to the same Circumstances. For, fince there are of Conceptions three forts, whereof one is of that which is present, which is sense; another, of that which is past, which is Remembrance; and the third of that which is to come, which is called Expectation: it is manifestly necesfary, that the condition of the pleasure or displeasure consequent to conceptions, be diversified, according as the Good or Evil thereby proposed to the Soul, is present, or absent. For, we are pleased, or displeased even at things past; because the Memory reviving and reviewing their images, fets them before the Soul as prefent, and she is affected with them no less than if the things themselves were present. So also of things future; for-asmuch as the Soul by a certain providence pre-occupying the images of things. that she conceives to come, looks upon them as really present, and is accordingly pleased or displeased by Anticipation: every conception being pleasure, or dis-pleasure present. This being presupposed, we proceed to the Genealogy of the paffions.

When the image of any new and strange Art. 3. object is presented to the Soul, and gives Admiration.

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her hope of knowing somewhat that she knew not before; instantly she admireth it, as different from all things she hath already known; and in the same instant entertains an appetite to know it better, which is called Curiosity or desire of Knowledge. And because this Admiration may, and most commonly is excited in the Soul before she understands, or considers whether the object be in itself convenient to her or not: therefore it seems to be the first of all passions, next after Pleasure and Pain; and to have no Contrary: because when an object perceived by the sense, hath nothing in it of new and strange, we are not at all moved thereby, but consider it indifferently, and without any commotion of the Soul. Common it is doubtless to Man with Beasts; but with this difference, that in Man it is always conjoyned with Curiofitrain Beasts, not. For when a Beast feeth any thing new and strange, he considereth it so far only as to discern whether it be likely to serve his turn, or to hurt him; and accordingly approacheth neerer to it, or fleeth from it: whereas Man, who in most events remembreth in what manner they were caused and begun, looks for the cause and beginning of every thing that ariseth new to him. Whence

Whence it is manifest, that all natural Philosophy, and Astronomy owe themselves to this passion: and that ignorance is not more justly reputed the mother of Admiration, than Admiration may be accounted the mother of knowledge; the degrees whereof among Men, proceed from the degrees of Curiosity. Now this Passion is reducible to delight, because Curiosity is delight: and so by consequence is Novelty too, but especially that novelty from which a Man conceiveth an opinion of bettering his own estate, whether that opinion be true or false: for in such case, he stands affected with the hope that all. Gamesters have while the Cards are shuffling; as Mr. Hobbs hath judiciously observed.

Nevertheless it seems rather a calm than Art. 4. a tempest of the mind. For, in Admi-Which causeth no ration, whereby the Soul is fixt upon the commotion contemplation of an object that appears in the to her new and strange, and therefore blood. well worthy her highest consideration; the Animal spirits are indeed suddainly determined, and with great force, partly to that part of the brain, where the image is newly formed, and partly to the Muscles that serve to hold the organs of the external senses in the same posture in which they then are, that so the ob-

ject may be more clearly and distinctly perceived: yet in the heart and blood there happens little or no commotion or alteration at all. Whereof the reason seems to be this; that since the Soul at that time, hath for her object, not good or evil, but only the Knowledge of the thing which she admires; she converts all her power upon the brain alone, wherein all sense is performed, by the help whereof that knowledge is to be acquired. And,

moderate.

Art. 5. Hence it comes, that Excess of Admi-And yet is ration sometimes induceth a Stupor, or dangerous, Astonishment; and where it lasteth long, when imthat wonderful disease of the brain, which Physicians name Catalepsis, whereby a Man is held stiff, motionless, and senseles, as if he were turned into a statue. For it causeth that all the Animal Spirits in the brain are so vehemently imployed in contemplating and conferving the image of the object, that their usual influx in other parts of the body is wholly intercepted, nor can they by any means be diverted: whereby all members of the body are held in a rigid posture, inflexible as those of a dead carcas, or of Man killed by Lightning. Of this admirable effect of excessive Admiration, Nich. Tulpius, an eminent Phyfician of Amsterdam, hath recorded (observ. medic. lib. 1. cap. 22.) a memorable Example in a young Man of our Nation, who violently refenting a suddain and unexpected repulse in his love, and astonished thereat, became as it were congeal'd in the same posture, and continued rigid in his whole body till next day. Immoderate Admiration therefore cannot but be, by fixation of the Spirits, hurtful to health.

After admiration followeth Esteem, or Contempt, according as the thing appears great and worthy estimation, or of small value and contemptible. For which reason we may esteem or contemn ourselves also: from whence arise first the Passions, and consequently the Habits of Magnanimity, or Pride; and of Humility or Abjection. But if the Good that we have a great esteem of in another Man, be extraordinary: then our esteem is increased to Veneration; which is the conception we have concerning another, that he hath the power to do unto us both good and hurt, but not the will to do us hurt; acccompanied with an inclination of the Soul to subject our selves to him, and by fear and reverence to purchase his favour. All which is evident in our worship or veneration of God.

That these two contrary Passions, Both con-sequents of Estimation and Contempt, are both con-sequents of Admiration; is inferrible from hence, that when we do not admire the the greatness or smalness of an object, we make neither more nor less of it than reason tells us we ought to do; so that in such case we value or despise it without being concerned therein, that is, without passion. And although it often happens, that Estimation is excited by Love, and Contempt proceeds from Hatred; yet that is not universal, nor doth it arise from any other cause but this, that we are more or less prone to consider the greatness or meanness of an object, because we more or less love it.

But though Estimation and Contempt may be referred to any objects what-Art. 8. That there soever, yet are they then chiefly obseris no just cause for a ved, when they are referred to ourselves, man to that is, when we put great or small vahave a high value lue upon our own merit. And then the for himfelf motions of the Spirits upon which they but the right use of depend, are so discernible, that they change his freethe very countenance, gestures, walking, will and in word all the actions of those who think more haughtily or meanly of themfelves than infual. But for what may we have a high esteem of ourselves? Truely I can observe but one thing that may give

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us just cause of self-estimation; and that is the lawful use of our free-will, and the soveraignty we exercise over our Passions. For (as the incomparable Monsteur des Cartes most wisely noteth) take away the actions dependent upon our Free-will, and nothing will remain for which we can deserve to be praised or dispraised with reason: and that in truth renders us in some sort like unto God Almighty by making us Lords of ourselves; provided we do not through carelesness and poorness of Spirit, lose the rights and power that royal preroga-tive of our nature conferreth upon us. Wherefore I am of the same Des Cartes his opinion, that true Generosity, which makes a Man measure his own merit by right reason, doth consist only in this; that he both knowes he hath nothing truely his own, except this free disposition of his Will, nor for which he justly can be commended or blamed, but that he useth that liberty well: and finds in himself a firm and constant purpose still so to do; that is, never to want will to undertake and perform all things that he shall have judged to be the better; which is perfectly to follow Virtue.

Whereas Pride, which is a kind of Tri-Art. 9. umph of the mind from an high Estimati-Pride.

on of ones self without just cause, expressed chiefly by haugthy looks, oftentation in words, and insolency in action; is a Vice so unreasonable and absurd, that if there were no Adulation to deceive Men into a better conceipt of themselves than they really deserve; I should number it among the kinds of Madness. But the contagious Air of Assentation is diffused so universally, and hath infected the Tongues of so great a part of Mankind, that even the most imperfect frequently hear themselves commended and magnified for their very defects: which gives occasion to persons of stupid heads, and weak minds, and consequently of easy belief, to fall into this Tympany of Pride or false Glory. A passion so far different from true Ge-nerosity, that it produceth effects absolutely contrary thereunto. For, fince other Goods, besides the virtuous Habit of using the liberty of our Wills according to the dictates of right reason, as Wit, Beauty, Riches, Honours, and the like, are therefore the more esteemed, because they are rare, and cannot be communicated to many at once: this makes Proud Men labour to depress others, while themselves being inslaved to their own vicious cupidities, have their Souls uncesfantly agitated by Hate, Jealousie, or Anger. The

The contrary to Self-estimation, is Hu-Art. 10. mility: whereof there are likewise two Sorts; one, Virtuous or Honest; the other, Vicious or base.

The Virtuous, which is properly na-virtuous, med Humility, consisteth only in that Reflexion we make upon the infirmity of our nature, and upon the errors we either have heretofore committed, or may in time to come commit: and maketh us therefore not to prefer ourselves before others, but to think them equally capable of using their freedom of Will, as well as ourselves. Whence it is, that the most Generous are also the most Humble. For being truely conscious both of their own infirmity, and of their constant purpose to Surmmount it, by doing none but virtuous actions, that is, by the right use of the liberty of the Will, they easily perswade themselves, that others also have the same just sentiment, and the same good resolution in themselves; because therein is nothing that depends upon another. Wherefore they never despise any man, and though they often see others to fall into such Errors that discover their weakness; yet are they still more prone to excuse, than to condemn them, and to believe their faults proceeded rather from want of knowledge

and circumspection, than from defect of an inclination and will to good. So that as on the one fide, they think not themselves much inferiour to those who possess more of the goods of Fortune, or exceed them in Wit, learning, beauty, &c. So neither do they on the other, think themselves to be much Superiour to others, who have less of the perfections; because they look upon such qualities as not worth much consideration, in comparison of that goodness of Will, upon which alone they have a just valuation of themselves, and which they suppose that every Man equally hath, or at least may have. This Humility therefore is inseparable from true Generosity: and being well grounded, always produceth Circumspection or Caution, which is fear to attempt any thing rashly.

Art. 11. guished by the name of Dejection or Poorness Dejection of Of Spirit, proceeds likewise from an apprehension of our own infirmity; but with this difference, that a man conceives himself to be so far deprived of the right and use of Free-will, that he cannot but do things against his inclination, and of which he ought afterward to repent; and believes himself not able to subsist of

himself, but to want many things,

whose

whose acquisition depends upon another. So, it is directly opposite to Generosity or Bravery of mind, and it is commmonly observed, that poor and abject Spirits are also Arrogant and Vain-glorious: as the Generous are most modest and humble. For, these are above both the smiles and frowns of Fortune, still calme and serene, as well in adversity as prosperity: but those being slaves to Fortune, and wholly guided by her, are puffed up by her favourable gales, and blown down again by her gust. Nor is it a rarity to see Men of this base and servile temper, to descend to shameful submissions, where they either expect some benefit, or fear some evil: and at the same time to carry themselves insolently and contemptuously toward others, from whom they neither hope nor fear any thing. This Ague of the Soul then, being ill grounded, doth so shake a Man with distrust of himself, that it utturly cows him, and keeps him from daring to attempt any worthy action, for fear of ill success: which Vice the Lord Bacon calls Restiseness of mind, and falling out of love with ones-self.

There is yet another remarkable Passi-Shame and con that seems to belong to Humility, and Impudence that is Shame. Which ariseth from an unwary discovery of some Defect or infir-

mity.

mity in us, the remembrance whereof senfibly dejecteth us, and puts us for the most part to the Blush, which is its proper Sign. That it is a fort of Modesty or distindence of our selves, is manisest from hence; that when a man thinks so well of himself, as not to imagine another can have just cause to contemn him; he cannot easily be checked by Shame: and as the Good that is or hath been in us, if considered with respect to the opinion others may conceive of us, doth excite Glory in us; so doth the Evil whereof we are conscious, produce Shame. And yet it cannot be denied but that in this discouraging Affect: there is also some mixture of Grief or secret regret, proceeding from apprehension of Dispraise: because being ever accompanied with inward displeasure at the defect or fault uncircumspectly discovered, it cools or damps the Spirits, teaching more wariness for the future. The Contrary to this, is Impudence; which is: contempt of Shame, year and oftentimes of Glory too. But because there is in us no special motion of the Spirits and Heart, that may excite Impudence; it feems to be no Passion, but a certain Vice opposite to Shame, and to Glory also, so far forth as they are both good and laudable: as: Ingratitude is opposed to Gratitude, and Cruelty

Cruelty to Commiseration. And the chief cause of this vicious insensibility of Honor, is founded in grievous contumelies to which a Man hath been accustomed in former times, and which he by degrees comes to despise, as of no force to hinder his enjoyment of commodities belonging to his body, whereby he measures all good and evil; thereby freeing himself from many necessities and streights to which honor would have obliged him. This therefore being no Passion, we are not concerned here further to consider it.

But as for Pride and Dejection; that they Art. 13, are not onely Vices, but Passions too, is That Pride evident enough from the commotion of the and its contrary, Spirits and blood that discovers itself out- Abje & ness wardly in Men surprised by them upon a of Spirit, are not onny new and suddain occasion. The same ly Vices but may be said of Generosity also and Humili- Passions alty. For, notwithstanding their Motions be less quick and conspicuous, and that there seem to be much less of Convenience or fellowship betwixt Virtue and Passion, than between Passion and Vice; yet no Reason appears, why the same Motion that serves to confirm a conception that is ill grounded, may not serve likewise to confirm the same conception though it be well grounded. And because Pride and Generosity consist equally in Self-esteem,

differing only in the injustice and justice thereof: they seem to be but one and the same Passion originally excited by a certain motion, not simple, but composed of the motions of Admiration, Joy and Love, aswell that love which is conceived for onesself, as that for the thing which makes one to value himself: as on the contrary, the Motion that causeth Humility, whether it be Vertuous or Vicious, seems to be composed of the motions of Admiration, Grief, and Self-love mixt with Hatred of the Defects that give occasion to one to conceive a mean opinion of himself. Now what are the Motions of the Spirits or Sensitive Soul, that produce Admiration and Pride; we have formerly declared: and as to those that are proper to each of the other passions already considered; they remain to be particularly described in their due places.

Art. 14. hatred.

As Admiration, the first of all the Pas-Love and sions, ariseth in the Soul before she hath considered whether the thing reprefented to her, be good and convenient to her, or not: so after she hath judged it to be good, instantly there is raised in her the most agreeable and complacent of all Passions, Love; and when she hath conceived the same to be Evil, she is as quickly moved to Hatred. For Love seems to be no-

thing

thing but a Propension of the Soul to that thing which promiseth pleasure or good to her: and Hatred is nothing but the Souls Aversation from that which threatens Pain or Grief.

By the word Propension here used, is to be understood, not Cupidity or desire, which is in truth a distinct passion proceeding from love, and always respecting the future; but Will or consent by which we confider ourselves as already joyned to the thing loved, by a certain conception of ourselves to be as it we a part thereof. As on the contrary, in Aversation or Hate, we consider ourselves as entirely separate from the thing hated.

According to these two opposite notions, Art. 15. I should define Love to be a Commotion of the Soul, produced by a motion of the Spirits, which inciteth her to joyn herself, by her will, to objects that appear convenient and grateful to her: and Hatred, to be a Commotion produced by the spirits; that ineiteth the Soul to be willing to be separated from objects that are represented to her as ungrateful and hurt-

ful.

Of Love there are made by the Schools Love, not two Sorts, whereof the first is commonly cal-well distinled Amor Benevolentia, love of Benevolence guished inor Good-will, whereby we are incited to lence wish well to the thing we love: the other, Concupi-H 3

Amor

Amor Concupiscentia, which causeth us to desire to enjoy or possess the object loved. But this Distinction, if confidered without prejudice, will be found to concern. only the Effects of love, not the effence of it. For, so soon as a Man hath in Will joyned himself to an object, of what nature soever it be; he is at the same instant carryed toward it by Benevolence, or (to speak more plainly) he in will also adjoyns thereunto what things he believeth conducible to the good thereof: which is one of the principle Effects of love, but doth not infer a different Species of it. And the same object, if it be judged good to be possessed, or to be joyned to the Soul in another manner than by the will alone; is instantly desired: which also ought to be accounted among the more frequent effects of love. Whence I conclude, that Defire connexed to Love; is Benevalence: as connexed with Hate, it is Malevolence or ill will. I add; that as Amity or Friendship feems to be nothing but constancy of Love; so Enmity, nothing but constancy of Hatred.

If then you feek for a more genuine But by the Distinction of Love, I know not how betgrees of ter to gratify your Curiofity, than by en-Estimation, tertaining it with that delivered by the most excellent Monseur Des Cartes in his Book

Book concerning the Passions; which I will thefore faithfully recite. "Love " (saith He) may, in my judgment, be with good reason distinguished by the "several degrees of Esteem we have of the " thing loved. For, when a Man hath ec. less esteem for an object, than for himfelf, and yet loves it; his love is no more but Simple Propension or Benevolence: "I when as much as for himself, tis Amity or "Friendship; when greater than for him-" self, it may be called Devotion. By " the First, a Flower, a Bird, a Horse, &c. "may be loved. By the Second, no Man of understanding can love any thing but "Men, who are so properly the object of this passion, that one can hardly be found " so imperfect, but he may be conjoyned to another in the most perfect bond of friendship, if that other conceive him-" self to be truely and sincerely beloved by him, and think him to have a Soul "truely noble and generous. And as for " the last, Devotion; indeed the principal object thereof is God Almighty, to-" ward whom there is no man living, who "confiders as he ought, the incompre-"hensible perfections of the Divine na-"ture, but must be devote (for, as Sene-" ca, Deum colit, qui novit) Yet there is a Devotion also to ones Prince, or Coun-H 4

"try, or City, or to any private person, whom we esteem above ourselves. And the difference betwixt these three forts of Love, is chiefly manifest from their "divers Effects. For when in each of them the Person loving considers him-'stifelf as joyned and united to the thing lov-"ed; he is always ready to quit or leave the least part of the whole that he makes with the same, to preserve the rest. "I'W hence it comes that in simple Benevo-Hence, the Lover always prefers himself to the thing loved: but on the contrary, 45 19 Devotion he always prefers the thing 's for far above himself, that he refears not to dye for the conservation thereof, of which noble Love there Soliave been glorious Examples in Men downed Bave quantarily exposed them-"Melves to certain death, for defence of bakeir Prince, or of their City, year Cometimes also for private Persons to whom they had particularly devoted "themselves boli : "

Art. 18.
That there are not so many diffinct forts of Love, as of objects to excite it

This distinction being admitted (as in my opinion it well deserves to be) there will remain no necessity of constituting so many distinct forts of Love, as there are various objects to excite it: seeing there are many Passions very different among themselves, and in respect of their several objects

objects, which yet agree in this, that they all participate of Love. For Example, the Passion by which the Ambitious is carried on to Glory, the Avaricious to riches, the Drunkard to wine, the Libidinous to women, the Honest to his friend, the Uxorious to his wife, the good Father to his Children, &c. differ very much among themselves, and yet so far resemble each other, that they all participate of Love. But the love of the first four aimeth at nothing but the possession of their peculiar objects; nor have they indeed any thing of Love for those objects, but only Desire mixt with some other special Passions. Whereas the love of a Parent to his Children, is so pure, that he desires to obtain nothing at all from them, nor to possess them in any other manner than he doth already, or to bring them to a nearer conjunction with himself; but considering them as parts of himself, seeks their good as his own, yea with greater care than his own, as not fearing to purchase their felicity at the rate of his own undoing. And the Love of an honest Man to his Friends, is also of the same perfection. But the Love of a Man to his Mistress, commonly distinguished by the name of the Erotic passion; is always mixed with/desire of Fruition.

. This is it is

Art. 19. Hatred less various

And as for Hatred; though that be directly opposed to Love: yet cannot it be than Love. distinguished into as many different kinds; because the difference betwixt Evils from which we are by our will separated, cannot be so well observed, as that which is betwixt the Goods to which we are by our will joyned.

Art. 20. Desire, always a Consequent of Love.

From what hath here been faid concerning Love, as distinguishable chiefly by the several degrees of Estimation conceived for the thing loved, it may eafily be collected that from Love ariseth Cupidity or Desire, whereby the Soul disposed to covet for the time to come, those things which the represent's to herfelf as convenient and likely to afford her pleasure d'Thus we desire not on ly the presence of an absent good, but also the conservation of the good that is present: yea we desire likewise the absence of Evil, aswell that which is already incumbent, as that which we believe possible to come upon us in the future. For in Cupidity or Desire of any thing whatfoever, which the Soul judges to be wanting to herself; she always looketh. forward to the time to come.

It may be collected also, that though But not al- Desire cannot be without Love, yet Love wayes Con-may be without Descre of possessing or enjoying,

enjoying the object, otherwise than by the pure embraces of the will alone. And this may be confirmed by observation of the different Motions of the Soul and Spirits raised in these two Passions, and the divers symptoms consequent there unto. For,

In Love, when it is not accompanyed ei- Art. 22. ther with Cupidity, or with vehement Joy, The Motions of the or with Sadness, but continues pure and Soul and simple; the Soul being incited to come Spirits in love, and joyn herself in will to objects that appear their Symgood and convenient to her, and instant-toms. ly dilated; the Animal Spirits are like lightning dispatched from the brain by the nerves instantly into the Heart; and by their influx render the pulse thereof more strong and vigorous than is usual, and confequently the circulation of the blood more nimble and expedite. Whereupon the blood being more copioufly diffused by the arteries, and more particularly those ascending to the brain, carries with it a recruit of vital Spirits newly enkindled: which being there further sublimed or refined; and corroborating the idea or image that the first cogitation hath formed of the thing loved, oblige, and in some fort compel, the the Soul to continue fixed upon that cogitation, and continually to indulge the fame.

same. And herein, if I am not much mistaken, doth the passion of Love principally confift. For, they who are affected therewith, have their pulse equal (the Spirits that cause it, being immitted into the Cardiac nerves with an equal and placid motion) but stronger and more frequent then ordinary; they feel a certain agreeable heat diffused in their breast; they find their brain invigorated by abundance of the Spirits, and thereby grow more ingenuous; and in fine they digest their meat quickly, and perform all actions of life readily and with alacrity. All which may be ascribed to the free and expedite, but equal Circulution of the Blood, caused by a copious influx of Animal Spirits into the Heart. : Whence we may fafely conclude, that this grateful passion is highly beneficial to all parts of the body, and conduceth, much into the conservation of Health; provided it continue within the bounds of moderation. But if it exceed them, and break forth into a wild and furious desire; then on the contrary, by: degrees enervating the members, with atilength induceth very great weakness and decay upon the whole body. For, Love accompanied with vehement desire, doth fo intirely imploy the Soul in the consideration

deration of the Object desired, that she retains in the Brain the greatest part of the Spirits, there to represent to her the Image thereof: so that the whole stock of Nerves, and all the Muscles, are defrauded of the Influx of Spirits from the Brain, with which they ought to be continually inspired or invigorated. Whence in process of time the whole Oeconomy of Nature is perverted, and an universal Languor ensueth.

And in Cupidity, whereby the Soul is Art. 23. The Moti-so effused towards Good or Pleasure re-ons of the presented to her as certainly to come, as Soul and that she is suddainly checked and con-Spirits in tracted again by reflection upon the delay of the same; there occurs this Singular, that it agitateth the Heart more violently, and crouds the Brain with more Legions of Spirits, than any other of all the Passions. For out of Desire to obtain what we ardently pursue, the Spirits are most swiftly transmitted from the Brain into all parts of the Body that may any way serve to do the actions requisite to that end; but above all into the Heart; which being thereby dilated and contracted both more strongly and more frequently than in the state of tranquility, quickly forceth up a more abundant supply of Vital Spirits with the Blood into the Brain; as well that

they may there conserve and corroborate the Idea of this Defire, as that whole Brigades of them may be from thence dispatched into the Organs of the Senses, and into all Muscles, whose motions may more especially conduce to obtain what is so vehemently desired. And from the Soul's reflexion upon the delay of her Fruition, which she at the same time makes; there ariseth in her a Sollicitude or trouble, whereby she is checked and contracted again, and the Spirits are by intervals retracted toward the Brain. So that the more subtil and spiritual Blood being with the Spirits recalled from the outward parts, the Heart comes to be constringed and streightned, the Circulation of the Blood retarded, and consequently the whole Body left without Spirits and Vigor. Let none therefore admire, if many of those Men whom Lust, or Concupiscence, Ambition, Avarice, or any other more fervent Defive hath long exercised and enslaved, be by continual sollicitude of Mind, brought at length into an ill Habit of Body, to Leanness, a defect of Nutrition, Melancholy, the Scurvy, Consumption, and other incurable Diseases. Nor are you after this so clear manifestation of the great disparity betwixt the Motions and neces-Sary

sary Consequents of Love when pure and simple, and those of Love commixt with Cupidity or ardent Desire of enjoyment; longer to doubt, but that Love and Desire are Passions essentially different; notwithstanding it be true, that the Later is al-

ways dependent upon the Former.

And as for the Motions of the Spi- Art. 24. rits and Blood in that anxious Affect of The Motions of the Mind, Hatred, which is directly op-Spirits and posed to Love, evident it is, that when Blood in the Soul is moved to withdraw herself from any Object that appears to threaten Evil or Pain, instantly the Spirits are retracted inwards to the Brain, and principally to that part of it which is the Instrument or Mint of Imagination; there to corroborate the Idea of Hatred, which the first thought hath formed of the ungrateful Object; and to dispose the Soul to Sentiments full of bitterness and detestation: So that the while, very few of them, and those too inordinately and by unequal Impulses, are transmitted into the Heart, by the Pathetick Nerves. And from this offensive Contraction of the whole Sensitive Soul, and as it were compression of the Animal Spirits, and subsequent destitution of the Heart, it comes, that in this sowr Passion always the Pulse is made meak and unequal, and of-

tentimes frequent and creeping; that cold, mixt with a certain pricking heat not easy to be described, but sensibly injurious to the vital parts, and repugnant to their regular motions, is felt within the Breast; and that even the Stomach itself, diverted from its Office of Concoction, nauseateth the Meats it had received, and strives to reject them by Vomit. Which often happens upon fight of an Jodious and abominable Object. Now all these evil effects of Hate, give indisputable evidence, that it can never be either grateful to the Mind, or beneficial to the Motions of Life, upon which Health fo nearly depends: and this, because Hate always hath Sadness for its Concomitant; and because by diversion of the Animal Spirits, partly to affift the Imagination, partly to move the Members for avoidance of the hated Object, it defrauds the Blood of its due Supplies of Spirits and Fewel, retards the Motion and equal distribution of it, and by that means destroys Concoction, incrassates the Humors, heaps up Melancholy, and by degrees brings the whole Body to Poverty and Leanness. Moreover, sometimes this disagreeable Passion is exalted to Anger, whereby the Soul, offended with the Evil or wrong the hath fuffered, at first Contracts

Contracts herself, and by and by with ve--hemency springs back again to her natural posture of Coextension with the whole body, as if the strove to break out into revenge: and then it is that the spirits are in a tumultuous manner, and impetuously hurried hither and thither, now from the brain to the heart, then back again from the heart to the brain; and so there follow from these contrary motions alternately reciprocated, as well a violent agitation, palpitation, burning and anxiety of the heart; as a diffusion of the blood, distension of the veins; redness of the face, and sparkling of the eyes, together with a distorsion of the mouth (such as may be observed in great indignation, and seems composed of laughter and weeping mixt together) grinding of the teeth, and other symptoms of Anger and fury. It is not then without reason Physicians advise Men to decline this passion, as a powerful enemy to health in all but such as are of a cold, dull, and phlègmatic temperament; because it inflames first the spirits, then the blood, and when violent, it puts us into fevers, and other acute distempers, by accension of choler, and consusion of humors. And I could furnish you with examples of some whom this short fury

fury hath fired into perpetual madness, of others whom it hath fell'd with Apoplexies, others whom it hath thrown into Epilepsies, rack'd with Convulsions, unnerved with Palseys, disjoynted with the Gout, shook with tremblings, and the like: but that the books of Physicians are full of them.

Art. 25. Hate always accompanied with Sadness.

Here before we proceed to other consequent Passions, it is fit to make a short reflexion upon Hatred, that I may verify what was only hinted in the precedent enumeration of the evil Effects thereof; viz. that it is ever accompanied with Sadness. Concerning this therefore I reason thus. Forasmuch as Evil, the proper object of Hate, is nothing but a Privation; and that we can have no conception thereof without some real Subject wherein we apprehend it to be; and that there is in nature nothing real which hath not some goodness in it: it follows of necessity, that Hatred, which withdraws us from some Evil, doth at the same time remove us also from some Good to which the same is conjoyn'd. And fince the Privation of this Good, is represented to the Soul as a Defect or want belonging to her: it instantly affecteth her with sorrow. For Example; the Hate that alienateth us from the evil manners of a Man with whom formerly formerly we have been acquainted, separateth us likewise from his Conversation, wherein we might find something of Good: and to be deprived of that Good, is matter of regret and Sorrow. So in all other Hatred, we may soon observe some cause of Sorrow.

To the excitement of Desire in the Art. 26. Soul, it is sufficient that she conceive the Fear. acquisition of the Good, or avoidance of the Evil represented to her as to come, to be possible: but if she further consider whether it be Easy or Difficult for her to obtain her end; and there occur to her more reasons for the facility: then there succeeds that gentle Essusion or Tendency of the Soul toward the good desired, which is called Hope or Expectation of good to come. Whereas on the contrary, if the greater weight be found in the other Scale, and she apprehended the thing desired, to be Difficult; she is immediately Contracted, and cool'd with that ungrateful Passion, Fean, which is expectation of Evil to come. And as Hope exalted to the highest degree, is changed into Trust, Confidence or Security: So on the contrary, Fear in extremity becomes Desperation. Again, if this Contraction of the Soul by Fear, be suddain and profound, and the Evil expected very great; then

sthe passion called Terror, Dread and Consternation, which sometimes is so violent, as to cause Examination or suddain Death.

Art. 27.
Pulfill animity and
Courage.

If the Soul, upon apprehension that the Good desired, is not indeed absoly impossible, but highly difficult for her to obtain; or the Evil feared, is not altogether impossible, yet extremely hard to be avoided; persist in her Contraction: The is daunted or cowd into that ignoble weakness called Pusillanimity or Cowardise. But if after her Contraction at first, she exerting her strength, spring forth as it were, and with vehemency dilate herself, to surmount her fear, and overcome the difficulties apprehended: then is she reanimated as it were, or fortified with the noblest of all Passions, Courage or Boldness, or Bravery of Mind, which makes her to contemn all obstacles to her attainment of her end, whether it be the acquisition of good, or declination of Evil; and which (when it is not a habit or natural inclination) seems to be an ardor or flashing of the Sensitive Soul, disposing her to act vigorously, and without fear, toward the vanquishing of difficulties that stand betwixt her and the scope she aims at.

And of this Animosity, Emulation is a species, whereby the Soul is disposed to

attempt or enterprise difficult things, Art. 28. which she hopes will succeed happily to a species of her, because she observes them to do so Magnanimito others. But then it is to be distinguish-ty. ed from simple Animosity by two proprieties. Whereof One is, that it hath not only an internal Cause, viz. such a disposition of the spirits and body, that Desire and Hope may have greater power in impelling the blood in abundance to the heart, than Fear or Despair can have in hindering that motion: but also an external Cause, namely, the Example of others who have been prosperous in the like attempts, which creates a belief in us, that we also shall be able to conquer the difficulties occurring afwell as those others have done. The Other, this; that Emulation is ever accompanied with secret Grief, which ariseth from seeing ourselves exceeded or excelled by our concurrents. But simple Animosity wants both Example for incitement, and Grief for alloy. But both these passions equally depend upon Hope of

good success. For,

Though the object of Andacity be difficonfidence and Deculty, yet to animate us to contend fpair.

Bravely with that difficulty, we must be possessed with a strong kope, or certain belief, that we shall at length attain our Tipe

end.

end. Yet this end is not the same thing with that object; for, there cannot be both Cretitude and Despair of the same thing at the same time. So when the Roman Decii rushed into the thickest troops of their enemies, and ran to certain death; the object of their daring was the difficulty of conserving their lives in that action, for which difficulty they had nothing but Desperation, being resolved certainly to dye: but their End was, either by their example to inspire courage into the Roman Army, and by them to obtain the victory they hoped; or to acquire posthume Glory, whereof they were certain. It therefore even in this action that was in itself desperate, Courage were grounded upon Hape; we may well conclude, that it is always fo.

Art. 30. From the reasons we have alledged of Doubting. Hope and Fear, it is evident, that we may have those contrary passions excited in us, though the Event of the thing expected nor way depend upon our selves. But when we proceed to consider the Event as altogether, or for the most part depending upon our own counsel, and perceive a difficulty to arise either in our election, or execution of the means whereby to obtain our end: then there

inmediately follows a Doubting or Fluctuation of the mind, whereby we are dispofed to deliberate and consult; and which is indeed a species of Fear. And this wavering, while it retains the Soul as it were in a doubtful balance betwixt two actions which are offered to her election; is the cause that she performs neither, but takes time to consider before she determineth which to do, for fear of erring in her choice. Which Fear, if moderate and under the command of Prudence, is always of good use; in that it serves to prevent Temerity or Rashness: but in some over-cautious Persons, it is so vehement, that though but one thing occur to be done or omitted by them, it holds them too long upon the rack of suspence, and hinders them from proceeding to action.
And in this case, the Passion is Exdesire of good, success, and weakness of Understanding, which hath indeed many confused notions, but none perspicuous and distinct concerning the means to effect its design.

If during this irresolution, we have Art. 31. determined the liberty of our choice, and Remorfe and acquiefixed upon some one action in order to scence. our end; and the event be not answerable to our expectation: presently we are affected

affected with that disquiet of mind which is named by the Greeks, Syntere-fis; by the Latins, Morsus Conscientiæ; and by the French, Regret; which yet doth not (as the precedent passion) respect the future, but present or past time. This Remorse of Conscience is no other but a kind of Sorrow, arising from a scruple interposed, whether what we are doing, or have done, be good, or not. And it necessarily presupposeth dubitation. For, if we were clearly convinced that the action we are doing, is really evil; we should certainly abstain from doing it: because the will is not carried to any thing, but what hath some shew of goodness in it. And if it were manifest, that what we have done, is really evil: we: should presently be touched not with simples regret, but with Repentance. For, as the Good we have done, gives us that internal Aquiescence or satisfaction, which is of all other Passions the sweetest: so on the contrary, the ill we have done, punisheth us with Repentance, which is of all passions the bitterest.

Having in this manner discovered the originals and distinct proprieties of these two opposite Passions, Hope and Fear, with their genuin dependents; it may not aslittle conduce to the illustration of Loss An

what hath here been briefly delivered concerning them, if we more expressly describe the divers Motions of the Sensitive Soul and Spirits that constitute their formal Reasons, so far at least as those motions are observable from their respective Characters or Effects.

In Hope therefore (which we defined The Motito be a gentle and sweet Effusion or Ex-ons of the pansion of the Soul towards some good ex-Spirits in pected to come) if we be possessed with an Hope. opinion, that the thing defired will shortly come to pass; I conceive that presently the Animal Spirits, which before were implayed as Emissaries, to contemplate the image of the object, returning toward the Soul, give notice of the approach of the guest expected: and that thereupon the whole Soul composing her felf by expansion to receive and welcome the same, sets open all the doors of the Senses to admit more freely all the good belonging thereunto; retains the imagination fixt and intent upon the grateful idea thereof; and by copious supplies of spirits dispatched into the nerves of the Heart, so invigorates and quickens the pulse thereof, that thereby the blood is more briskly sent forth into the outward parts of the body, as it were to meet the expected thing. Whence it is, that when

when we are full of Hope, we feel a certain inflation both within and without in our whole body, together with a glowing but pleasant heat, from the blood and spirits universally diffused. But if during this comfortable emotion of the Soul, there occur any suddain cause of Doubt or fear; she is instantly checked and coold into an anxious Retraction of herself, and a sinking of the spirits; so that the motion of the Heart becomes weaker and slower, and the external parts grow languid and pale. For,

Art. 33. The Motions of the Soul and Spirits in Fear.

In Fear, the Sensitive Soul, which was before expansed, being surprised with apprehension of approaching Evil, and willing to decline it, immediately withdraws herself into her retiring Room, and shrinks up herself into herself; at the same time recalling her forces, the spirits, to her aid, and compressing them. If the Fear be exalted to the degree of Terror, and the Evil seem impendent; then at the same time the spirits are suddainly recall'd from the outguards, the pores of the skin also are shut up by strong constriction (as if the Soul would obstruct and barricado all avenues against her invading enemy) whereby the hairs are raised an end, and the whole body is put into a Horror or shaking. After this,

if the passion continue, the whole army of spirits being put into confusion, so that they can not execute their offices; the usual succors of Reason fail, and the powers of voluntary motion become weak; yea sometimes, by reason of a resolution of the nerves and sphincters of the gutts and bladder, the Excrements themselves are let forth involuntarily. From this damp obscuring the Lucid part of the Sensitive Soul, there quickly succeeds an Eclispe also of the Vital. For the influx of the Animal spirits from the brain into the Cardiac nerves being intermitted, the motions of the Heart must of necessity be rendred weak, and insufficient to maintain with due vigour and celerity the circulation of the blood: which therefore stopping and stagnating in the ventricles of the Heart, causeth fainting and swooning by oppression; and sometimes (where the Passion is hightned into Consternation) also suddain death. And from this arrest of the blood in the Heart, by strong constriction of the nerves thereunto belonging, we may with reason derive that same anxious oppression, and chilling weight which Men commonly feel in their breast, when they are invaded by violent Fear; and upon which the most acute Monsieur Des Cartes seems to have re-

reflected his Thoughts, when he defined Consternation to be not only a cold, but also a perturbation and stupor of the Soul, which takes from her the power of resisting evils that she apprehends to be neer.

Art. 34. ons in De-

speration.

This Fear, when it excludes all hope The Moti- of evasion, degenerateth into the most cruel of all passions, Desperation. Which though by exhibiting the thing defired as impossible, it wholly extinguishes defire, which is never carried but to things apprehended as possible: yet it so afflicts the Soul, that the preserving in her Constriction, either though absolute despondency yields up herself as overcome, and remains half-extinct and entombed in the body; or driven into confusion and neglect of all things, contracts a deep Melancholy, or Ayes out into a futious Madness; in both cases, seeking to put an end to her milery by destroy ing herself.

On the contrary, when Fear gives place to Hope; and that Hope is strong enough to produce Courage; thereby to incense the soul to encounter the difficul-. ties that oppose her in the way to her end! in this wase the first dilates herself with great vigor and celerity, breaking forth as it were into flashes of efforts; then instantly diffuseth whole legions of spirits

spirits into the nerves and muscles, to extend them, in order to resistence or striking with all their forces; and uniting all her powers into a brave devoir to overcome, undauntedly pursues the conflict. Hence it comes, that the breast being strongly dilated and contracted alternately, the voice is sent forth more founding and piercing then at other times; as if to found a defiance and charge at one: the arms are raised up, the hands constringed into fists, the head advanced into a posture of daring and contempt of danger, the brows contracted, and the whole face distorted into an aspect full of Terror and threatnings, the neck swoln, and most other parts distended beyond their usual dimensions.
All which symptoms evidently arise from a copious and impetuous effusion of Animal spirits from the brain, and of blood from the Heart, into the outward parts.

From this concise explication of the motions of the Sensitive Soul, the spirits and blood, that constitute the passions of Hope and Fear, with their dependents, Animolity and Desperation, the clue of our method leads us to the fifth

classis of passions.

The consideration of good present, and Art. 35. belonging to us in particular, begets in Joy.

the

the Soul that delight which we call Joy, wherein consisteth our possession of that good, which the impressions of the brain

represent to the Soul as her own.

First I say, that in this delightful commotion doth consist the possession of good; because in truth the Soul reaps no other fruit from all the goods she possesses and when she takes no delight or joy in them, it may justly be said, she doth no more injoy them, than if she did not

at all possess them.

Then I add, that the good is such as the impressions made upon the brain repre-Sent to the Soul as hers; that I may not confound this Joy whereof I now speak, and which is a Passion; with Joy purely intellectual, which enters into the Rational Soul by an action proper to her alone, and which we may call a pleasant commotion raised by herself in herself, wherein consisteth the possession of good, that her intellect represents to her as her own. Tho really so long as the Rational Soul continues conjoyned with the Sensitive, it can hardly be but that this intellectual joy will have the other that is a passion, for its companion. For, so soon as our Intellect observes that we possess any good, though that good be so far different from all that pertains to the body,

that.

that it is wholly unimaginable; yet prefently the *Imagination* makes some impression in the brain, from whence solloweth a motion of the Sensitive Soul, and of the Spirits, that excite the passion

of Joy.

Of this so grateful affection there are The varidivers sorts, or (to speak more strictly) ous Degrees degrees. For, as various circumstances of Joy and their names may intervene, and cause the Soul to be more or less affected with her fruition of the good she possesseth: so may we distinguish various differences of the passion itself. To be more particular; as the good she possesset, is great or small; unexpected, or long desired; durable, or transitory; and as reason moderateth the appetite, or suffers it to be unbridled: so it comes to pass, that the Effufion of the Soul, and consequently the pleasure, is greater or less, permanent or momentary, immoderate or temperate, &c. And hence the kinds of more remiss Joy are call'd Complacency, Jucundity, Gladness, Exhilaration: and those of more intens, Rejoycing Exsultation, Triumph, Boasting, Transport or Ecstasy, Laughter, &c.

By the same reason, as the Evil that The varicauseth the opposite passion of Grief, is of Grief, in the present great or little, suddain or and their names.

fore-

foreseen, long or short, and the like: so are there excited various kinds or degrees of Trouble or Grief; and accordingly the passion is distinguished into Discontent, Sollicitude, Vexation, Sadness, Sorrow, Affliction, Misery, Lamentation, Weeping and Howling. All which belong to Grief, which is an ingrateful Languor of the Sensitive Soul, wherein alone confisteth the incommodity that hapneth to her from Evil or defect, which the impressions made upon the brain, represent to her as her own. For, besides this, there is also an Intellectual Sorrow proper to the Rational Soul, which is not to be placed in the number of the passions, tho' for the most part it hath for its adjunct the passion of Sorrow; by reason of the most strict conjunction betwixt the two Souls in this life.

Art. 35. Pirry.

As the Good or Evil present, being Envy and represented as belonging particularly to ourselves, produceth Joy or Grief in us: so when Good or Evil is proposed to us, as belonging to others; we so far concern ourselves therein, as to judge them worthy, or unworthy of the same. If we judge them unworthy of the good that is hapned to them; that raiseth Envy in us: if we think them not to deserve the Evil that is befallen them, then we are affected

feeted with Pity or Commiseration, which is a species of Sorrow; and the contrary to it is Hardness of Heart, proceeding either from flowness of imagination (for men of dull capacities are generally less apt to pity the calamities of others) or from, strong opinion of our own exemption from the like sufferings, or from that inhuman temper of mind which the Grecians call Misanthropia, Hatred of all or most men; or finally from despair after long adversity, whereby the mind being grown as it were callous or brawny (as Seneca expreseth it) is apt to conceive, that no evil can come to it, greater than what it hath been accustomed to undergo.

On the contrary, they are more than Art.39. others propense to Commiseration, who Generous think themselves and commiseration, who men most think themselves very weak, and obnoxi-inclined to ous to adverse fortune: because repre-commisesenting to themselves anothers misfortune, and why as possible to happen to themselves also (for the evil that happeneth to an innocent man, may happen to every man) they are easily moved to pity, but more out of love of themselves than of others. And yet it hath been ever observed, that men of the most generous and Heroick spirits, such who having by brave resolutions, and habitual magnanimity, elevated their Soul's above the power of fortune, and so

could

could fear no evil that she could bring upon them; have nevertheless been prone to Commiseration, when they beheld the infirmity of others, and heard their complaints; because it is a part of true Generosity, to wish well to every one. But the Grief of this Heroick Commiseration is not (as the other) bitter, but like that which Tragical cases represented in a Theatre produce, it is placed more in the Sense, than in the Soul it self, which at the same time injoyeth the satisfaction of thinking that she doth her duty in sympathizing with the afflicted. And the difference betwixt the Commiseration of the vulgar, and that of Generous minds, doth chiefly confist in this; that the vulgar pitieth the misery of those who complain, as thinking the evil they suffer, to be very grievous and intolerable: but the principal object of generous pity, is the imbecillity and impatience of those who complain; because men of great Souls think, that no accident can fall upon a man, which is not really a less evil than the Pufillanimity of those who cannot endure it with constancy; which Seneca intimateth (de tranquillitate animi, cap. 15.) where he saith, neminem flebo flentem; nam suis lacrymis efficit, ne ullis dignus sit and though they hate the vices of men they they do not hate their persons, but only

pity them.

Manisest it is therefore, that in some, Art. 40? Commiseration is nothing but imaginatiCommiseration, a on of future Calamity to our selves, pro-species of ceeding from the sense of another mans Grief mixcalamity; as it is defined by Mr. Hobbs: ed with in others, a species of Grief mixt with lence. Love or Benevolence toward those whom we observe to suffer under some evil, which we think they have not deserved; as it is defined by Monsieur des Cartes.

Manifest it is likewise, that the contra-Art. 41. ry passion, Envy, is a sort of Grief mixt sort of with Hate, proceeding from our sense of Griefmix. prosperity in another, whom we judge ed with unworthy thereof. A passion never excusable, but where the Hatred it contains, is against the unjust distribution of the good that is envied, not the person that possesseth it, or that distributed it. But in this corrupt age, there are very few fo just and generous, as to be free from all Hate towards their competitors, who have prevented them in the acquisition of a good which is not communicable to many at once, and which they had defired to appropriate to themselves; though they who have acquired it, be equally or more worthy thereof.

Envy and Commiseration.

Art.42.

Acquiefcence of mind, a kind of Foy.

When we reflect our thoughts upon good done by our selves, there results to us that internal Satisfaction or Acquiescence of mind, which is a species of Joy; calmindeed and serious, but incomparably sweet and pleasant; because the Cause of it dependeth upon nothing but our selves: But then that cause ought to be just, that is, the good upon which we reflect our cogitations, ought to be of great moment: otherwise the Satisfaction we fancy to our selves, is false, and ridiculous, serving only to beget pride and absurd arrogancy. Which may be specially observed in those who esteem themselves truely religious, and pretend to great perfection of Sanctity, when in reality they are Superstitious and Hypocrites: that is, who because they frequent the temple, recite many prayers, wear short hair, observe fasting days, give alms, and perform other the like external duties of Religion; therefore think themselves to be arrived at the highest degree of purity, and to be so far in the favour of Almighty God, that they can do nothing that may displease him, and that whatever their passion suggesteth to them, is of holy zeal; though it not seldom suggesteth the most detestable crimes that can enter into the heart of Man, as the betraying of Ci-

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ties, assassination of Princes, extermination of Nations, only because they follow not their Phanatick opinions. And this Delusion seems to be the Daughter of internal Acquiescence grounded upon an unjust cause. Again, to excite this most comfortable passion, it is requisite that the good act upon which we restlect, be newly done by us: because that constant satisfaction and self-acquiescence which always is a concomitant and certain reward of Virtue, is not a passion, but a pacific Habit in the Rational Soul; and is therefore call'd Tranquility and

Quiet of Conscience.

On the contrary, from our remem-Art.43. brance of an Evil act by us committed, Repenariseth Repentance, which is a branch of tance, a species of Grief, always most bitter, because the Grief, but. cause of it is only from our selves: but then allaid this Grief is allayed by expectation of with some amendment, or returning into the right for way to good; which is referrible to fox.

Nor doth the bitterness of this passion hinder it from being of excellent use in our life, when the action whereof we repent, is really Evil, and we certainly know it to be so because in such cases know it to be so: because in such cases it strongly inciteth us to do better in the future. But it is not universally profitable. For it is no rarity for men of weak K 3

and timorous minds to be touched with Repentance of actions they have done, tho' they do not certainly know those actions to be really evil, but only believe them to be so, because they fear lest they be so, and if they had done the contrary, they would have been equally disquieted with repentance. Which is an imperfection in them well worthy Commiseration; and they ought to repent of such their Repentance.

Art. 44.

When we observe, or recall to mind good performed by another, tho? not to our selves; we are thereby moved to Favour the doer: because we are by Nature inclined to like and love those who do actions that we think good, although from thence nothing of good redounds to us in particular. Favour therefore is a species of Love, accompanied with desire of seeing good to happen to the person whom we favour; and sometimes with Commiseration, because the adversity that salls upon those whom we think to be good, makes us the more to resect upon their merits.

Art. 45. Gratitude.

But if the good done by another upon which we reflect our cogitations, hath been done to Us; then to favor is adjoined Gratitude: which likewise is a kind

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of Love, excited in us by some action of enother, whereby we believe, that either he hath really benefited, or at least intended to benefit us in particular; and accompanied with Defire to shew our selves thankful to him therefore. And therefore this passion of Gratitude, as it excells simple Favour in this, that it is grounded upon an action which concerns Us: 10 11 11 hath it far greater force upon the mind, especially in men of noble and generous natures. The Contrary hereunto is Ingratitude, which notwithstanding is no Passion (for Nature, as if she abhorr'd it, hath ordained in us no motion of the Spirits whereby it might be excited) but a meer Vice, proper to men who are either fooliffely proud, and therefore think all benefits due to them; or fottishly stupid, so as to make no reflexion upon good turns done them; or of weak and abject minds, who having been obliged by the bounty and charity of their Benefactors, instead of being grateful, prosecute them with hatred; and this because either wanting the will to requite, or despairing of ability to make equal re-turns, and falsely imagining that all are like themselves, venal and mercenary, and that none doth good offices but in. hope of remuneration; they think that their K 4

their Benefactors have deceived them; and so deprave the benefit it self into an injury. Hatred then being an adjunct to Ingratitude; it follows that Love must attend on Gratitude, which is therefore always honest, and one of the principal bonds of human Society.

Art.46. Indignation.

On the contrary, when we consider Evil committed by another, tho' not against us; we are moved to Indignation: which is a species of Hatred or Aversion raised in us against those who do any thing that we judge to be evil or unjust, whatsoever it be; somtimes commixed with Envy, somtimes with Commiseration, somtimes with Derision; as having its object very much diversified. For, we conceive Indignation against those who do good or evil to such who are unworthy thereof; but we Envy those who receive that good, and pity those who suffer that evil. And yet in truth, to obtain good whereof one is unworthy, is in some degree to do evil: and to do Evil, is in some sort to suffer evil. Whence it comes, that fomtimes we conjoyn Pity, somtimes Derision to our Indignation, according as we stand well or ill affected toward them whom we obferve to commit Errors. And therefore the Laughter of Democritus, who derided i de ficial

the folly, and the Tears of Heraclitus who bewail'd the milery of mankind, might both proceed from the same cause,

Indignation.

But when Evil is done to our selves, Art.47. the passion thereby kindled in us, is An. Anger. ger: which likewise is a species of Hatred or Aversation, but different from Indignation in this, that it is founded upon an action done by another with intention to hurt us in particular; and in this, that when it hath proceeded to a determination of hurting him who did it; it pasfeth into Revenge; whereas at first accension, the passion is no more but Excandescence or sudden Heat of Blood. The Desire of Revenge that for the most part accompanieth Anger, whether it aim at the death, or only at the subjection of our Enemy; is indeed directly opposed to Gratitude (for this is desire of returning good for good, and that, desire of requiting evil with evil) as Indignation is to Favour: but incomparably more vehement than either of those three affections; because the desire of repelling harm, and revenging our selves, is a part of natural instinct necessary to self-preservation, and so of all desires the strongest and most urgent. And being consociated with Love of our selves, it affords to Anger

Anger all that impetuous agitation of the Spirits and Blood, that Animosity and Boldness or Courage can excite: and its assistant, Hatred, promoting the accension of the Choleric or more Sulphureous parts of the blood as it passeth through the heart, raiseth in the whole mass thereof a more pricking and fervent heat, than that which is observed in the most ardent Love, or most profuse Joy.

Now as men inflamed with this violent

Art.48. ther Revengeful.

Two forts passion, or (as Seneca calls it) short fury of Anger; of Anger, differ in point of temperament; one Harm and as this or that of the usual concomitees, the o- and as this or that of the usual concomitants of it, is more powerful than the rest: so must the Effects thereof upon the body be likewise various. And from this variety men have taken notice chiefly of ewo forts of Anger. One, that is quickly kindled, violent at first, and discovers it self visibly by outward signs: but performs little, and may be easily composed. And to this, they are most obnoxious, who are good-natur'd, i. e. who are inclined to goodness and love. For it ariseth not from profound Hatred, but from a sudden Aversion surprising them: because being propense to conceive that all things ought to proceed in that manner which they judge to be the best; whenever they see others to act otherwise, first they admire,

mire, and then are offended; and so what would be to others matter only of Indignation, to them proves cause of Anger. But this commotion is soon calmed, because the force of the sudden Averfion that raised it, continues not long: and so soon as they perceive that the thing for which they were offended, ought not to have commoved them to passion; they suppress their displeasure, and repent of it. The Other, that wherein Hatred and Grief are predominant, and which though at first it hardly betray it felf by external signs, unless by the sudden paleness of the countenance, and trembling; is notwithstanding more impetuous within, fecretly gnaws the very heart, and produceth dangerous effects. And to this pernicious fort of Anger they are most subject, who have proud, cowardly and weak Souls. For, so much the greater do injuries appear, by how much the better opinion pride makes Men to have of themselves; yea and by how much greater value is put upon the things which the injuries take away: and these things are always so much the more valued; by how much the more weak and abject the Soul is; because they depend upon others, but the Generous put little va-Ine upon any thing that is not dependent upon themselves.

Art.49. Glory and Shame.

When we consider what opinion other Men have of Us, the Good which we believe to be in us, disposeth us to Glory, which seems to be composed of Self-estimation, and foy; for to see our selves well esteemed by others, gives us cause to have a good esteem for our selves: and on the contrary, the Evil we are conscious of, forceth us to Shame, which is a fort of Modesty or Humility, and self-diffidence; for (as we have formerly observed) who thinks himself above Contempt, will hardly be humbled to shame. These two Passions, Glory and Shame, tho' directly opposite each to other, do yet agree in their End, which is to incite to Virtue; the first by hope, the other by fear: and that we may make a right use of them both, we are to have our judgment well instructed what actions are truely worthy praise or dispraise; lest otherwise we be ashamed of virtuous actions, or affect glory from vices; as it happeneth to too great a part of Mankind.

Thus have we at length recounted all the Passions of this our fifth division, and deduced them successively from their several causes or occasions, in that order wherein their most remarkable diversity seem'd to us most easily distinguishable.

But

But now because some of these passions are simple, others Composed; and that to our more clear understanding of the nature of both sorts, it is necessary to enquire more prosoundly into the Motions of the Sensitive Soul and spirits that constitute their Essential Differences: it remains that we yield obedience to that necessity, so far forth at least, as to explain the Motions proper to that couplet of more simple affections, Joy and Grief; the two points in which all human actions end; and to that most violent one, Anger.

In Joy therefore, which is a delightful Art, 50. commotion of the Sensitive Soul as it were The Mori-triumphing in her fruition of good or Soul and pleasure; I conceive that the Animal spi-spirits in rits being in great abundance, but with For. a placid and equal motion, sent by the nerves to the heart, cause the orifices thereof to be opened and dilated more than at other times; and so the blood to be imported and exported more copiously and freely: and that by this means, from the blood are brought into the brain a plentious supply of new spirits, which extracted out of the purest and most refined parts of the blood, are most fit to confirm the idea formed of the present good in the imagination, and so to continue the Soul in her pleasant Emotion. Hence

Hence probably it is, that in this most agreeable passion, both the pulse is always made equal and more frequent, tho' not so intense and strong as in Love; and a certain grateful heat is felt, not only through the Lungs and all the breast, but through all outward parts of the body; from the diffusion of the blood in full streams into them, which is discernible even by the florid purple colour wherewith they are suddenly tinged, and by the inflation or plumpness of all the muscles of the face, which is thereby rendered more serene, sweet and cheerful: Easie therefore it is to infer, that as this passion is most congruous to the nature of the Corporeal Soul, so are the corporeal motions that accompany and characterize it, most profitable to health; provided they be moderate. For, this Commotion and Effusion may be so vehement and fudden, that the Soul may become weak, and unable to rule the body, or to actuate the organs of speech, yea swooning, and death it self somtimes follow profuse an insolent Joy. So Lacon Chilo, an eminent Philosopher, suddenly expired in excessive joy, beholding his Son a Victor in the Olympic games. So Sophocles the Tragedian also, and Dionysius the Tyrant died of a surfeit of sudden Joy.
The

The reason whereof seems to consist, not in a vehement effusion and dissipation of the vital spirits, and a destitution of the Heart consequent thereunto; as Ferneli. us would have it; because the faster the blood is effused through the arteries from the heart, the swifter must it return to the heart through the veins, so that the heart cannot be totally exhausted and left destitute of blood: but rather in a surcharge and suffocation of the heart by too redundant an afflux of blood. For, upon extraordinary dilatation of the floudgates of the heart by immoderate joy, the current of blood both out of the Vena cava, and from the arteria venosa, may pour it self with so much violence, and in so great a quantity, into the ventricles thereof, that the heart, unable to discharge it self soon enough of that oppressing deluge, by retruding its valves, may be suffocated; its motions stopped, and the Vital Flame in a moment extinguished. For certain it is, that in the state of health, the blood is not admitted into the heart beyond a certain proportion: nor can that proportion be much exceeded, whatever the cause be that maketh an apertio portarum there, without manifest danger of life. Among

Among the Signs of this delightful pas-Laughter fion, some have given the upper hand to that diffortion of the countenance, accompanied with a loud, but inarticulate voice, which we call Laughter: but this being neither proper to, nor inseparable from Joy, cannot therefore be long to it essentialy. That it is frequently a concomitant of Mirth or Hilarity, is not to be disputed: but Mirth is the lowest degree of Joy, a light and super-ficial emotion of the Sensitive Soul and Spirits, a kind of short tickling of the Imagination, usually expressed by Laughter: whereas Joy is serious, profound and grave, according to that memorable Sentence of Seneca (epist. 23.) res severa est verum gaudium. Laughter then (as I faid) is not proper to all Joy; because common to some other affections: for some are observed to laugh out of Indignation, others out of Contempt and disdain, neither of which belong to any kind of Joy. Nor is it inseparable from Joy; because in truth Joy cannot produce Laughter, unless when it is very moderate, and hath somthing of Admiration or Hate mixt with it. For, we have it from the oracle of Experience, that in great and profound Joy, the cause of it, whatsoever it be, doth never force us to break forth

forth into laughter: nay more, that we are most easily provoked to laugh, when we are sad. Whereof the reason seems to be, either because in solid Joy, the Sensitive Soul is so deeply commoved, so intirely taken up with the delight of fruition, that the cannot attend to shake the Midriff, Lungs and Muscles of the breast, nimbly and strong enough to create laughter: or because at that time the Lungs are so distended with blood, that they cannot, by repeated concustions, for alternate contractions and relaxations, be further inflated with air, whereof no little quantity is required to produce that loud sound emitted in Laughter. That we may understand this matter more fully, let us examine the cause or occasion; and the Motions of Laughter. 19 191919

As for the First, viz. the Occasion or Art.52.

Motive; whatsoever it be, there must The occasions of concur therein these three Conditions fol. Laughter. lowing. (1.) It must be new and surpri-

sing; because whatsoever is ridiculous at the first, ceaseth to be so when grown stale.

(2.) It must be such a novelty as may suggest to us a conception of some eminency or advantage in our selves above another whom the occasion chiefly concerns: for, why are we naturally prone to laugh at either a jest (which is nothing but a witty or elegant discovery and

representation of some absurdity or indecency of another, abstracted from his person) or at the mischances and infirmities of others; unless from hence, that thereby our own abilities are the more set off and illustrated, and recommended to us by way of comparison? (3.) It must not touch our own, or our friends honour; for, in that point we are too tender to tolerate, much less to laugh at a jest broken upon our selves, or friends, of whose dishonour we participate. These requisites in a ridiculous cause considered, we may adventure to conclude, that Laughter is an effect of sudden, but light Joy arising from the unexpected discovery of some infirmity in another not our friend, and from imagination of our own eminency, and exemption from the like. Here then (you seed is something of Admiration from the Movelty, somthing of Aversion from the Infirmity, and somthing of Joy or triumph from our opinion of some eminency in our selves.

Art.53. And as for that Laughter which is some Laughter times joyned with Indignation; it is most out of In-commonly fictitious or artificial, and then

it depends entirely upon our will, as a voluntary action: but when 'tis true or Na-

tural, it seems likewise to arise from for

conceived from hence, that we see our selves to be above offence by that evi

which is the cause or subject of our indig

nation; and that we feel our selves surprised by the unexpected novelty of the same. So that to the production of this Laughter also is required a concourse of Joy Aversion and Admiration; but all moderate.

If this be so, what then shall we think Art.54. of that odd example of Laughter in Lu-A rare ex-dovicus Vives; who writes of himself involunta-(lib. 3. de Anima, cap. de Risu) that usu-ry Laughally when he began to eat after long fasting, he could not forbear to break forth into a fit of loud laughter? This doubtless was not voluntary; because he strove to suppress it: nor could it be Convulsive, fuch as Physicians call Risus Sardonius; because he was in perfect health, sensible of no pain therein, nor incommodity thereupon. It must therefore be Natural, though not Passionate; proceeding from some cause very obscure, and idiosyncritical, that is peculiar to his constitution: perhaps this, that in this Learned man either the Lungs were more apt to be distended with blood, or the Midriff more easily put into the motions that produce laughter, than commonly they are in most other men. The First, because in general, whatsoever causeth the Lungs to be suddenly puffed up and distended with blood, causeth also the external action of Laughter; unless where sorrow changeth that action into groaning and weeping: 1, 2

the other, because all Laughter is made chiefly by quick and short vibrations of the Midriff. But this rare Phenomenon we shall perhaps be better able to solve, when we have considered how the action of Laughter is performed in all other men.

Art.55.
A conjecture concerning the cause thereof.

Concerning this Problem therefore, it is observable that in Man, there seems to be a greater consent or sympathy, or ra-ther commerce of motions betwixt the Midriff and the Heart, yea and the Imagination also; than in Brutes of what order or tribe soever: and that the Reason given hereof by the most accurate of our Modern Anatomists, is this; that the principle Nerve of the Midriff is rooted in the same Nerve of the Spine (named Nervus vertebralis) from whence there comes a conspicuous branch into the grand plexus of the Intercostal nerve; and that commonly two, sometimes three other branches more are derived from that same notable plexus, into the very trunk of the Nerve of the Diaphragm (as you may see most elegantly represented by Dr. Willis in the 9th Table of his most elaborate Book de Anatomia Cerebri) which are not found in Beasts. For, from this plenty and fingular contexture of nerves, it may be conjectured, not only why the Dia phragm doth so readily conform its moti ons to those of the Pracordia, and of th Anima

Animal Spirits excited in passions of the Mind, and co-operate with them; but also why Risibility is an affection proper only to Man. For (as the same most curious Dr. Willis reasoneth, in his chapter of the functions and uses of the Intercostal pair of nerves) when the Imagination is affected with some pleasant and new conceipt, instantly there is caused a brisk and placid motion of the heart, as if it sprung up with joy to be alleviated or eased of its burden. Wherefore that the blood may be the more speedily discharged out of the right Ventricle of the heart into the Lungs, and out of the left into the Aorta or grand Artery; the Diaphragm, being by abundance of Animal spirits immitted through so many nerves proceeding from the aforesaid Plexus, briskly agitated, is by nimble contraction drawn upwards; and so making many vibrations, doth at once raise up the Lungs, and force them to expel the blood out of their vessels into the arteria venosa, and to explode the air out of their pipes into the windpipe; and this by frequent contractions of their lax and spongy substance, answerable in time and quickness to the vibrations of the Midriff. And then because the same Intercostal nerve, which communicateth with the nerve of the Diaphragm below, is conjoyned above also with the nerves L 3

of the jaws and muscles of the face; thence it is, that the motions of Laughter being once begun in the breast, the face also is distorted into gestures or grimaces pathetically correspondent there. unto. And this is the most probable account I am able at present to give of the occasions and motions of passionate Laughter in general: nor can I at present think of any more plausible conjecture concerning the reason of the admirable laughter of Ludovicus Vives, than this; that in him the nerves inservient to the motion of the Midriff, might be after such a peculiar manner contrived and framed, as easily to cause quick and short reciprocations thereof, upon the pleasant affection of his Imagination by the grateful relish of his meat, after long abstinence, which doth always heighten the pleasure of refection. But we have infifted too long upon the motions of Joy.

ons and. Sorrow.

In the contrary whereof, viz. Grief or The Moti- Sorrow (which we have above described Effects of to be an ingrateful languer of the Soul, from a conception of evil present, moving her to contract her felf, that she may avoid it) the Animal Spirits are indeed recalled inward, but slowly and without violence: so that the blood being by degrees destitute of a sufficient influx of them, is transmitted through the heart with

with too flow a motion. Whence the pulse is rendered little, slow, rare, and weak; and there is felt about the heart, a certain oppressive strictness, as if the orifices of it were drawn together, with a manifest chilness congealing the blood, and communicating it self to the rest of the body. From which dejecting symptoms it is easie to collect, that this dole-ful affection, especially if it be vehe-ment and of long continuance, cannot but infer many, and grievous incommodities to the whole body. For, besides this that it darkneth the spirits, and so dulls the wit, obscures the Judgment, blunts the memory, and in a word beclouds the Lucid part of the Soul: it doth moreover incrassate the blood by refrigeration, and by that reason immoderately constringe the heart, cause the lamp of life to burn weakly and dimly, induce want of sleep by drying the brain, corrupt the nutritive juice, and convert it into that Devil of a humor Melancholy. No wonder then if in men overcome with this so dismal passion, the countenance appears pale, wan and liveless; the limbs grow heavy and indisposed to motion, the flesh decays and consumes through want of nourishment, and the whole body be precipated into imbecillity, Cachesy or an evil habit, languishing L 4

ing and other cold and chronic diseases. All which the wisest of Men, King Solomon, hath summ'd up in few words in 17 Chap. of his Proverbs, where he advertiseth, that a sorrowful spirit drieth up the very bones. And yet notwithstanding, it is very rarely found, that from Grief eithers long and obstinate, or violent and suddenly invading, any man hath fallen into a Swoon, or been suddenly extinguished. Which I am apt to refer to this; that in the ventricles of the heart, tho? but very flowly commoved, there can hardly be so small a quantity of blood, but it may suffice to keep alive the vital flame burning therein, when the orifices of them are almost closed, as commonly they are by immoderate grief.

Art. 57. Sighs and Tears. Sometimes this bitter passion is signified by a certain uncomely distortion of the face, somewhat different from that of Laughter, and accompanied with Tears; sometimes only by Sighs: by Sighs, when the Grief is extreme: by Tears, when it is but moderate. For as Laughter never proceeds from great and prosound Joy, so neither do Tears flow from prosound sorrow; according to that of the Tragedian, leves cura loguentur, ingentes stupent. Nor is weeping the pathognomonic or infallible sign of Grief, For, all tears are not voluntary; every light hurt or pain of

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the Eyes causing them to distill against our will: nor all voluntary ones the effect of Grief. Some weep for sudden joy joyned with Love, especially old men: some when their revenge is suddenly frustrated by the repentance and submission of the offender; and such are the tears of Reconciliation. Some again weep out of Anger, when they meet with a repulse or check of their desires, which causing them with regret to reflect upon their own weakness and insufficiency to compass their wills, affects them with displeasure, and dissolves them into tears, as if they fell out with themselves upon a sudden sense of their own desect: and this kind of weeping is most familiar to Children and Women when they are crossed in their wills and expectation; as also to Revengeful Men, upon their beholding of those whom they commisserate, and their want of power to heip them: Notwithstanding the occasions of weeping be thus various, yet since Tears are frequently both an effect and testimony of Sorrow, the nature and motions whereof we have now attempted to explain: it can be no impertinent Digrission, to inquire surther into their original or source, and the manner how they are made to flow, when we are willing to

fignifie our present sorrow by shedding them.

Art. 58. Whence Tears flow.

As for the Fountain therefore whence all our Tears flow, and the Matter whereof they consist; the successful industry of Modern Anatomists hath discovered, that in the Glandules placed at each corner of the Eyes, there is either from the blood brought thither by the arteries (as the vulgar doctrine is) or (as I, upon good reasons elsewhere delivered, conceive) from the Nutritive juice brought by nerves, separated, and kept in store a certain thin, clear and watery humor, partly saline, partly subacid in taste; the use whereof is as well to keep the globes of the eyes moist and slipery, for their more easie motion; as to serve for Tears when we have occasion to shed them And to this some have added, that because there are certain branches of nerves (like the tendrels of a Vine) incircling the vessels leading to and from those Glandules, and by their tension sometimes constringing them: therefore it is probable, that when the serous humor is too abundant in the blood brought into the brain, the same is by the arteries (whose pulse is quickned somwhat by the presfure of these nerves) brought more copiously than at other times, into those GlamGlandules, and after its separation, there detained from returning by the veins, that are likewise streightned by constriction of the same nerves. Whether this ingenious conjecture be true or not; certain it is, that the matter of Tears is the same with the liquor of the Lympha-ducts, and that they flow from the aforesaid Glandules, which are therefore named Lacrymales.

And as for the manner of their Ex- Art.59.

pression from thence in some passions of How they the Mind; the most rational account I sed.

have hitherto met with concerning it, is this. When any occasion of weeping occurs, and affects the Sensitive Soul; instantly the Ventricles of the heart, with all the Pracordia, are by the blood in abundance brought into them, more than usually crowded and distended, and the Lungs also stuffed and inflated, so that they cannot perform the action of respiration but by sobbs intermixed; and the Midriff, to give room to such distension of the heart and Lungs, is pressed downward, with a more intense contraction alternately succeeding; which great depression and brisk contraction being repeated, is the efficient cause, of Sobbing; and at the same time the air being with difficulty admitted into the lungs, by reaWeeping.

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son they and the Midriff are so exceedingly distended, and with no less dissi-culty exploded again by the windpipe: thence comes that whining sound of cry-ing and howling. To this affection of the vitals, the parts of the face also, being distorted into a sad and mournful as-pect, exactly correspond: because the nerves which contract the Pracordia, have a communion of continuity, and co-operate with those which are inserted into the muscles of the face, and which compose it into the postures of weeping and laughter in passion. Nor doth the disorder cease here, but extend it self to the upper region also, to the brain, where the Spirits being put into confufion, and the arteries surcharged with too great an afflux of blood from the oppressed heart; the palace of the Soul it self is brought into danger of a purple deluge. For prevention whereof, the nerves incircling and binding the trunks of the arteries in many places, strongly con-stringe them; so that the commotion of the blood is much repressed, the liquor thereof, (in the beginning of the passion highly rarified) suddenly condensed, and the serous part of it being put into a flux, is transmitted into the above mentioned Glandules of the Eyes, there plaplaced and destined by nature to receive it. And then because these Glandules are in like manner constringed, and as it were squeezed by certain nerves that are of the same original and community with the Pathetic nerves of the face and heart: the serous liquor is expressed out of them through their excretory channels leading to the corners of the Eyes (most accurately described, with their uses, by that diligent Anatomist Nichol. Steno, in a singular treatise) and forced to distill in a shower of tears; the strong Contraction of the membranes investing the whole brain, concurring to that expression.

The same may be said likewise of the Art.60. The reashedding tears for Joy. For in sudden the reaand great Joy conjoyned with Admira-weeping
tion, the Sensitive Soul very much expanding her self, and diffusing the Animal
Spirits; the blood is sent from the heart
in great abundance to the brain, so as
to distend the vessels that contain it:
which being soon after strongly contracted again by the same Soul withdrawing her self inward, (as if she feared a
dissolution by so ample an Essusion) the
blood is in a fort put into a slux or melted, and the serous part of it separated
in the Glandules of the Eyes, and thence
by constriction of the nerves squeezed
orth in tears.

Art.61. Why Infants and Old men are more prone than others to shed tears.

This being supposed, it will not be difficult for us thence to infer, that Infants and Old Men are indeed more prone to weep than those of middle age: but for divers reasons. Old men for the most part weep out of Love and Joy together; because both these affections causing a great Effusion of the Sensitive Soul, and consequently a large apertion of the orifices or fluices of the heart; must therefore (especially where they are conjoyned) cause also a transmission of the blood from thence to the brain in great abundance: and the blood being generally more thin and diluted with serum in old men, must yield more matter for their tears. But Infants commonly weep out of mere Sorrow and vexation, such as is not accompanied with the least of Love: because the contraction of the Soul and nerves caused by sorrow, expressions feth out of the blood (which is always abundant in children) brought by the arteries to the brain, a sufficient quantity of serum to replenish the Glandula Lachrymales, and supply the sourse of their tears.

Art.62. of Sighing and Sobbing.

There remains yet that other Sign of the reason Sorrow, which doth usually accompany it when it is profound and extreme; and that is Sighing; the cause whereof is very

much different from that of weeping, though both proceed from Grief. For, the same occasion that moves us to shed tears, when our Lungs are stuffed and distended with blood; provokes us also to fetch deep sighs, when they are almost empty, and when some sudden imagination of Hope or comfort opens the sluice of the Arteria Venosa in the lungs, which for row had lately contracted. For, then that little blood that remained in the lungs, in a moment passing down through that pipe into the left ventricle of the heart; the ambient air instantly rusheth by the mouth into the lungs, to replenish that place the blood had left free: and this great and quick repletion of the lungs with air, is what we call Sighing.

You have now heard what Conjectures feem to me most consentaneous to reason and Anatomical observations, concerning the Corporeal Motions excited in those two eminent passions, Joy and Sorrow, with their usual Adjuncts, Laughter and weeping: be pleas'd to hear also a few words touching the more violent motions proper to Anger, which I have

promised next to consider.

That the Effects of this most vehement Art.63. The MoriCommotion of the Sensitive Soul are various and one, not only as the occasion or injury is symptoms conceived of Anger.

conceived to be greater or less; but also according to the various temperaments of persons, and to the diversity of other Passions conjoyned therewith: is obvious to common observation, and we have already hinted. And from this variety it is, that men have distinguished Anger into Harmless and Dangerous, or simple heat of blood, and thirst after Revenge: assigning moreover to each fort its proper Signs or Characters observable in the outward parts of the body, and especially in the face. For some when they are angry, look pale, or tremble; others grow red, or weep: and the vulgar judgeth the passion of the first sort to be much more dangerous, than that of the other. Whereof the reason may be this; that when we either will not, or cannot shew our resentments, and revenge otherwise than by our change of countenance, and by words; we then put forth all our heat, and exert all our force at the very beginning of the commotion; so that the blood being in this sudden effort copiously effused from the heart into the face, and there detained a while by constriction of the veins by those branches of the Fifth pair of nerves that are inserted into the muscles of that part; we are forced to appear in the scarlet livery of shame, that is,

grief at the unworthy affront. And sometimes the first emotion of desire to vindicate our selves, together with commiseration of our own want of power to revenge more effectually, causeth us also to shed tears.

But they who on the contrary, reserve themselves for, and strongly resolve upon revenge in time to come, grow deeply sad and pensive at the present; as conceiving themselves thereunto obliged by the nature of the injury done to them, and casting about in their thoughts how to accomplish their revenge: and all this while the Sensitive Soul persisting in her Contraction and revocation of the Spirits inwards, there is no extraordinary, nay but little diffusion of the blood outwards. And sometimes they also fear the evils that may ensue from the revenge they intend; which strikes them into paleness; Shivering and trembling: the Sensitive Soul being then distracted betwixt the contrary motions of desire of revenge, and of fear of the ill consequents thereof; like a Sea beaten by two contrary winds. Yet after this first conflict is over, when they come to execute their revenge, then fear giving place to rage, they foon grow the more inflamed and daring, by how much the

the colder they were during their deliberation: as in Fevers, that invade with cold and shivering, the following heats are always most ardent and unquenchable. You see then how the Motions, and consequently the Efforts and Effects of this violent passion may be diversified even by diversity of other affections conjoyned therewith. For in the Harmless and Blushing or Weeping anger, there is always a mixture of shame and self-pity; which by allaying the desire of revenge, helpeth much to check and moderate the commotion of the blood; and therefore such anger seldom lasteth long, and is more eafily composed: when on the other side, in the Pale and Trembling, but Dangerous anger, there is first deep Indignation, then Fear, and at last Furious persuit of revenge; by which the blood being most violently agitated, and the sulphureous parts of it all kindled into a flame, is not to be calmed and reduced to temper, unless by the pleasure of revenge, or by triumph in the submission of the Enemy, or by the cold damp of repentance. For prevention of which most bitter passion, by moderating our Anger; I think my self in Charity obliged to conclude this argument with an excellent Moral remark of Monsieur des Cartes. Although

Although the passion of Anger be in Art.64. it self usefull, in that it inspires us with Anger to vigour and courage necessary to repel in-be avoided juries: yet the Excesses of no other passi- and that chiefly by on are with greater care and caution to the help be shunned. Because by perturbing our of true judgment, they often induce us into those errors, whereof we ought afterward dearly to repent: yea sometimes they hinder us from repelling injuries so fafely and honourably, as otherwise we might, if we were less commoved. But as nothing doth more encrease the flame of Anger, than Pride: so (I am perswaded) nothing can more abate and res strain the excesses of it, than true Generosity. Because while Generosity makes us to have but little value for all things that may be taken from us; and on the other side, to prize above all temporal things, our Liberty and Empire over our selves, which is lost when we are capable to be hurt by another: it makes us with Contempt alone, or at most with Indignation to revenge those injuries, with which weaker minds are wont to be offens ded.

Being now at length arrived at the end of this my divertifing Exercise, wherein I proposed to my self to inquire into the Occasions, Causes, Differences, M 2

Motions and Effects of the most powerful and remarkable of all the Passions, by which the mind of Man is apt to be perturbed; so far as my weak understanding affisted by reading and meditation would permit: before I lay aside my pen, I find it requisite to advertise you briefly of two things, one whereof may conduce to your more easie comprehension of what I have hitherto delivered concerning the more general Differences of the Passions; the other may serve to my exemption from the censure of the Illiterate.

The First is, that of all the Passions

Art. 65. the Paffions hitherto confidered, only six are Simple; the rest Mixed.

That of all recounted and described in this impolite discourse, there are only six that seem to be Simple and Principal, namely Admiration, Love, Hatred, Desire, Joy and Grief; which are therefore said to be Simple, be. cause they consist of only one single act or commotion of the Sensitive Soul disturbed with the apprehension of things whether real or imaginary. For, as to all the rest; either they are but various species of thôse Simple ones, or they refult from divers mixtures and combinations of them; being therefore named Mixt Passions, because they consist of more than one act or Motion. If therefore I have chiefly considered the Nature, motions, and principal Effects of the Six Sim-

Simple or Primitive passions; contenting. my self only with a brief Genealogie of the Compound or Derivative, as sufficient to direct your cogitations to the various Mixed commotions whence they result: it was only lest I might abuse your patience by undecent repetitions, or oppress your mind with too great multiplicity of particulars, which is none of the least im-

pediments of Science.

The Other is; that notwithstanding the Art.66. Excellency, and singular Utility of the Reasons a-Argument whereof I have treated in this gainst publication Discourse; yet seeing my design in come on of this posing it, hath been partly to render my discourse. present solitude less tedious to my self, and chiefly to give you some testimony that I convert not my leisure into idleness: You ought not to frustrate my confidence of your secrecy, or to expose my defects, by communicating these papers to Others. Not to Philosophers, least they find nothing new in them but my Laples. Not to the Unlearned, because they are incompetent judges of truth or error, especially in such Philosophical Enquiries; more addicted to barbarous contempt of Knowledge in others, than to confess ignorance in themselves. To These therefore (you may be most assured) I am not ambitious you should recommend this-M 3 Trea-

Treatise, wherein is contained nothing that can either please, or reform them. I know it is no less difficult to teach them the art of regulating their exorbitant Passions, than it is to bring them to prefer the severe dictates of Reason, to the flattering suggestions of Sense; or to convince them, that really nothing is pleasant, but what is also honest; nothing very desirable, but the right use of their freedom of will; nothing formidable, but the evil they themselves commit. I know, that in the Vulgar, Religion is fear; constancy, bruitish obstinacy; zeal, pride; friendship, interest; and virtue it self but dissimulation. I know also, that the multitude is not led by merit, but carried headlong by prejudice, to praise or dispraise: and that they are more propense to malignity and detraction, than to charity and candor. The Vulgar then, and all that herd with them, I exclude from my studies; lest by perversely interpreting them (as they do all things) they should interrupt my tranquility, which I value infinitely above their favour, and wherein I endeavour to find a happiness, which neither their hatred, nor the iniquity of Fortune shall take from me.

That I may find this the fooner, I

now and then entertain my self with serious reflections upon my own defects, as the only impediments that have hitherto hindered me from attaining unto it: and among the rest, I hold my mind longest fixed on this following Meditation: which I therefore freely impart to you who are my Friend, both because I think it may be of equal use to you also, by helping you to moderate your Affections to the transitory things of this shadow of life; and because the precedent discourse will perhaps be somewhat the less imperfect, after it hath received so pertinent a

M 4 Con-

CONCLUSION.

Art. I. That all the Good and Evil of this life depends upon the Pallions.

Hat all the Good and Evil of this life depends upon the various Passions incident to the Mind of Man; I need no other document than my own dearly bought Experience: which hath too often convinced me, that while I out of weakness suffered my self to be seduced and transported by the ardor and excesses of my Affections, I have fallen into Errors, that have more dejected my spirit, than a long succession of infortunes could ever do; and from whence I could not expect better fruit, than that of shame, forrow and repentance. Notwithstanding this, I ought not to

Art. 2. Which yet were instituted by ments to the Soul.

be so unjust, so ingrateful to Nature, as to transfer the blame of such Errors upon Nature as her; as if the had been less careful than the might have been; to secure Man from intelicity: only because she thought. fit to make him obnoxious to fo great a multitude of inward Perturbations. No, I ought rather to remember, that among all of them, there is no one but hath its

Use, and that a good one too: provided we rightly imploy the forces Nature hath given us, to keep it within the bounds of Moderation. And it may suffice to Natures vindication, that reason obligeth me to acknowledge, that her design in instituting our Passions, was in the general this; that they might dispose and incite the Soul to affect and desire those things, which Nature by secret dictates teacheth to be good and profitable to her; and to persist in that desire: as the same commotion of the spirits that is requisite to produce them, doth dispose the parts of the Body also to those motions that serve to the execution of her will. And hence doubtless it is, that they who are naturally most apt to be moved by passions, have this advantage above others of duller and grofser constitutions, that they may (if they will) taste more of the pleasures belonging to the Sensitive Soul: but then again they are likewise thereby more exposed to drink of the gall and wormwood of pain and remorfe, when they know not how to regulate their passions, and when adverse Fortune invades them. I am confirmed then, that because man is constituted propense to Passions, he is not therefore the less perfect, but rather the more capable of pleasure from the right use of the

the good things of this life: and by consequence, that Nature by making him ζωρν παθεπιών, hath therein signali-

zed both her wisdom and indulgence.

That we not from want of an under-Randing.

But had he not been more persect, if it Art. 3. had pleased his Creator to endow him moreare prone over with Such Excellency above all other to Errors, Animals, as might have secured him from committing Errors through the violent inomniscious stigation of his Passions, whenever they should incite him to desire and persue things not really but only apparently good for him? Certainly no. For it is not only impious, but highly abfurd, to imagine that God can be Author of our Errors, because he hath not given to us an Understanding Omniscious: for it is of the formal reason of a created intellect, that it be finite: and of a finite intellect, that it extend not it felf to all things. But that Man should have a Will unconfined or extensible to all things, this indeed is convenient to his nature: and it is a transcendent perfection in him, that he can and doth act by his own will, that is freely; and so is, by a peculiar prerogative, Author of his own actions, and may deserve praise and reward for them. For no Man praiseth a Watch, or any other Self-moving engine made by art, for performing the motions thereby defigned;

signed; because those motions necessarily result from the figure and construction of its parts: but the Artist himself deserves praise, because he framed the engine not by necessity or compulsion, but freely. So we by the same reason deserve the more by well-doing, that is by embracing truth, because we do it voluntary or by election; than we should, if we could not but do it. When therefore we fall into Errors, occasioned by our Passions; the desect lieth in our own act, or in the use of our liberty, not in our nature: for that is the same when we make an erroneous judgment of things represented to us, as it is when we make a right judgment. And although Almighty God might, if He had thought good, have given so great perspicacity to our Understanding, as that we could never have been deceived: yet by what right can we require that privilege from him? True it is (Iconfess) that among us Men, if any hath power to hinder this or that evil, and yet doth not hinder it; we accuse him as cause of it; and justly too, because the power that Men have one over others, was instituted, and committed to them to that end, that they should use it to the restraining of others from evil. But there is not the same reason why we should think

think God to be Author of our Errors, only because it was in His power to have prevented them, by making us superior to deception: for the power that God hath of right over all Men, is most soveraign, most absolute, most free. And therefore we are obliged to ascribe to His Divine Majesty, all possible praise and thanks for the good gifts He hath out of his infinite benignity been pleased to bestow upon us his Creatures: but we have no pretext of right to complain, because He hath not conferred upon us all things that we conceive he might.

Art. 4. But from our ill use derstanding we have, in the conduct of our defires suggested by passions.

Besides, although the intellect of Man be not omniscious; yet is it not so narrow, of that un- so limited, as not to extend to the conduct of his Unlimited Will, in the Election of Good, and avoidance of Evil; and consequently to his exemption from Error by the violence of his Passions. For, first, by virtue of his Understanding, Man is capable of Wisdom, which is alone able to teach him how to subdue and govern all his Affections, and how to dispense them with such dexterity, as not only to make all the Evils they produce, easily tollerable, but even to reap internal satisfaction and joy from all. And secondly, it is evident from the very nature of our Passions, that they cannot

carry

carry us on to any actions whatsoever, but only by the Desire they excite in us: and therefore if we can but direct that desire to right objects, that is to things really Good; we may by that alone prevent our being deceived, that is our being carried to evil actions by violence of our Passions: but that Right Reason is of it self able so to direct our desire arising from passions, is manifest from the known Utility of Moral Philosophy, which prescribeth certain rules to that end. I will conclude then, that I commit Errors in Art. 5. passion, not because I am naturally prone Errors to to Passions, nor because I want an om- which the niscious Understanding: but only because cited by I make not a right use of that finite in- our Passi-deed, yet sufficient Understanding God ons, ex-pose us, ahath given me, in the conduct of that rise from hence,

That I may therefore be henceforth bet- do not ter able to make use of my Understanding sufficient-as Lought, in such occasions; it highly guish concerneth me to enquire in the next place, things into the origin of that Error, to which that depend in-the Capidity accompanying our Passions, tirely up-doth most frequently expose us: for, that on our selves, being once known, will be the more easi- from ly avoidable. This Error then doth arise those that (if I mistake not) from hence; that we depend upon o-do not sufficiently distinguish those things that thers.

depend intirely upon our selves, from those that depend upon others, as to their events: it being a general rule, that Desire is always good, when grounded upon certain Knowledge; and on the contrary always evil, when founded upon some error. Now as to things that depend upon our selves alone, that is upon our Free-will; to know them to be good, is sufficient to assure us we cannot desire them too fervently: because to do good things that depend upon our selves, is to pursue Virtue, which cannot be too fervently desired, nor can the event of our desire of such things possibly be unhappy, be-cause from the conscience that by desiring them we have rightly used the freedom of our will, we receive all the satisfaction we expected, But alass! the Error that is too commonly committed in such cases, lieth not in the over fervent, but in the over cold desire. And the best remedy against this defect, is to free the mind as much as is possible, from all other desires less profitable; and then to endeavour clearly to understand, and with due attention to examine the goodness of the thing that is represented as worthy to be defired.

As for the things that are altogether Art: 6. independent upon Us; however good they And that they may may be, yet we are never to desire them be prevehemently: not only because tis possible two Genethey may never arrive, and so vex and ral Remetorment the mind so much the more bit- dies, viz. terly, by how much the more eagerly Generosity. they have been desired; but chiesly because by preoccupating our thoughts, they withdraw our study from other things whereof the acquisition depends upon our selves. And against these vain desires there are two general Remedies; whereof the first is true Generosity; the other, a firm belief of, and tranquil dependence upon Providence Divine. For, that noble and heroick habit of the mind, which is called Generosity, and which seems to comprehend all other Virtues; though it animateth Men to great and honorable enterprises, doth yet at the same time restrain them from attempting things which they conceive themselves incapable to effect; inspiring courage, not temerity.

Then by teaching, that nothing is either more worthy of, or more delightful to a spirit elevated by the love of Virtue, above the vulgar, than to do good to others; and in order thereunto, to prefer beneficence to self-interest: it makes us perfectly charitable, benign, affable,

and ready to oblige every one by good offices, when it is in our power so to do. Again, being inseparable from virtuous Humility, it makes us both to measure our own Merits by the impartial rule of right reason, and to know that we can have no just right to praise or reward, but from the genuin and laudable use of the freedom of our Will. And from these and other the like excellent effects of this divine Virtue, it is that the Generous attain to an absolute dominion over their exorbitant passions and desires. They conquer Jealousse and Envy, by considering, that nothing whereof the acqui-\ fition depends not wholly upon themselves, is really valuable enough to justifie their earnest desire of it. They exempt themselves from Hatred towards any, by esteeming all as worthy of love as themselves. They admit no Fear, by being duly conscious of their own innocency, and secure in the confidence of their own Virtue. They banish Grief, by remembring that while they conserve their will to do good, they can be deprived of nothing that is properly theirs. And Anger they exclude, because little esteeming whatsoever depends upon others, they never yield so much to their Adversaries, as to acknowledge themselves within the reach

reach of their injuries. It is not then without reason, that I fix upon Generosity, as one of the universal remedies against our inordinate Cupidities. And

As for the other, namely frequent re- Art. 73 flection upon Providence Divine; this And frequent redoubtless must likewise be of soveraign flections efficacy to preserve us from all distem- upon Propers of mind. For, it establisheth us in Divine, a certain perswasion, that it is absolutely impossible that any thing should come to pass otherwise than this Providence hath from all eternity determined: and consequently, that Fortune is but a Chimera, hatch'd in the brain out of an Error of human understanding, and nourished by popular superstition. For, we cannot de-fire any thing, unless we first think the same to be some way or other possible: nor can we think those things to be possible, that depend not upon its, unless so far as we imagine them to depend upon Fortune, and that the like have happened in times past. But this opinion proceeds only from hence, that we know not all the Causes that concur to single Effects. For, when a thing that we have apprehended to depend upon Fortune, and so to be possible, succeeds not! that is a certain lign, that some one of the Causes necesfary to make it succeed or come to pass,

hath been wanting; and consequently, that the same was absolutely impossible; as also that the like event, that is such a one to the production whereof the like necessary Cause was wanting, hath never come to pass. So that had we not been ignorant of that desicient Cause, we never had thought that event to be possible, nor by consequence ever desired it.

Art. 8.
Which utterly excludeth
Fortune,
but leaveth us at
liberty to
direct our,
defires.

We are therefore utterly to renounce that vulgar absurdity, that there is in the World a certain Power called Fortune, that makes things to happen or not to happen as she pleaseth: and in the room thereof to establish this great verity, that all things are directed by Divine Providence, whose decree is so infallible and immutable, that excepting those things which the same decree hath left to depend upon our Will, we ought to think, that in respect of Us, nothing doth or can come to pass, that is not necessary, and in some measure fatal: so that we cannot without error desire any thing should come to pass otherwise than it doth. But forasmuch as our desires for the most part extend to things that depend neither wholy upon us, nor wholly upon others: therefore we ought in them to distinguish exactly what dependeth intirely upon our Selves,

selves, that so we may extend our defires to that alone. And as for the rest; though we ought to look upon the fuccess as fatal and immutable, lest we place our desire thereupon: yet ought we alfo feriously to weigh and consider the reasons that suggest more or less hope, that they may serve to direct our actions accordingly. For reason requires we should follow the more probable and safe way to our end: and when we have done so; whatever the Event be, we ought contentedly to acquiesce in this, that we have done what our Understanding judged to be best. And truly when we have learned thus to distinguish Providence Divine from Fortune, we shall easily acquire a habit of directing our desires in such a manner, that because the accomplishment of them depends upon our selves only, they may always afford us Art. 6? How we full satisfaction. may expea

But do we not here intangle our selves in dite our great difficulties, by endeavouring thus to re- felvesfrom concile this eternal Preordination of God, culties to the Liberty of our Will? we do, I con-that seem to make Ifess; but conceive withal, that we may the dedisentangle our selves again, by remem- cree of bring, that our Understanding is finite, Providence but the power of God by which He hath irreconfrom eternity not only foreknown all the liberty

things of our will.

things that are or can possibly be, but alfo willed and preordained them so to be, is infinite: and then that it is enough for us, clearly and distinctly to know, that this infinite Power is essentially in God; but too much for us so to comprehend the same, as to see in what manner it leaveth the actions of Men undetermined and free. For of the Liberty or indifferency that is in us, we are all so conscious within our selves, that there is nothing we can comprehend more evidently, more perfectly. And it were absurd, because we cannot comprehend one thing which we know to be of its own nature incomprehensible to us; therefore to doubt of another which we do intimately comprehend, and by daily experience find to be in our selves.

Again, since we thus know most cer-Art.10. tainly, that all our Errors depend upon How it comesthat we are of our Will; is it not wonderfully strange that ten deceiv- we are ever deceived, when no Man is ed by our willing to be deceived? Tis so indeed; will. though we but nevertheless the Problem seems capable of solution by considering, that it are never deceived. is one thing to be willing to be deceived, with our and another to be willing to give assent to Willer those things wherein it happens that error is found. And though there be no Man, who is expresly willing to be deceived:

The more stable.

yet

yet there is scarcely any, who is not often willing to affent to those things wherein error is, unknown to him, contained e Yea it often falls out; that the very defire of attaining to truth, causeth those who do not rightly know by what way it is to be attained, to give judgment of things they do not clearly perceive, and so to err. So that the summ of all this perplex and intricate matter is this, that Error ariseth from our assent to things whose truth or falfity, good or evil, we have not clearly and distinctly discerned. For, since God cannot without impious absurdity be imagined to be Author of deceit, the faculty He hath given us of perceiving and differning, cannot naturally tend to falsity: as neither can our faculty of assenting, that is our will, when it extends it felf only to those things that are clearly perceived. Whence it follows, that to direct our desires aright, our main business must be to imploy our Understanding or faculty of discerning, strictly and attentively to examine and confider the goodness of the objects, before we determine our Will upon them: wherein doth chiefly consist the use of all Moral Wildom, and whereupon great part of our temporal Felicity dependeth. N 3 But

Art. II. A third general Remedy against Error occasiordinate Paffions, Viz. Premeditation and Deliberation.

But do not I here propose a lesson very hard to human frailty to learn? Is it not extremely difficult thus accurately and calmly to examine things, when the oned by in- imagination is vehemently commoved by the object of some more violent passion, and the judgment strongly surprised? I acknowledge it to be difficult indeed: but this difficulty hath its proper Remedy, namely Premeditation and Deliberation. I find in my self (and so do all Men, I believe) that the motions raised in my blood by the objects of my affections, do fo promptly follow upon the first impressions made by them in my brain, and from the mechanical disposition of the organs of my body, though my Soul contribute nothing toward their advancement, but continues indifferent; that all the wisdom I can call to my assistance is not sufficient to resist and arrest them. And others there are, I know, who being naturally propense to the commotions of Joy, or of Commiseration, or Terror, or Anger; have not the power to refrain themselves frow swooning, or tears, or trembling, or heat of blood, whenever their Phancy is vehemently affault. ed by objects apt to excite those Passions. Nay, as if all Mankind were equally subject to the same defect, it is held for

a Maxim, that the first motions of our passions are not in our power. And yet notwithstanding, this so universal defect is not incurable by Premeditation and care. When therefore we first feel any such strong commotion of our blood, we ought to be premonished and to remember, that all things that offer themselves to the imagination, respect only the de-ception of the reasonable Soul, and to perswade her that the reasons which serve to recommend the object of her passion, are far more firm and considerable than in reality they are: and on the contrary, that those which serve to discommend it, are much weaker and less considerable than in truth they are. And when Passion comes at length to perswade us to do those things whose execution admits of any the least pause or delay: we must remember to abstain from giving judgment concerning them, much less assent to them, and to avert our cogitations to other things, until time and quiet have wholly composed the commo-tion in our blood. Finally, when heat of passion inciteth us to actions that allow little or no time for counsel or deliberation; in this case we are to convert our will chiefly upon following those reasons that are contrary to what that passion fion

fion fuggesteth, although they appear less valid. So when an Enemy invades us unexpectedly, that sudden occasion permits us not to take time for deliberation whether of the three is best, to resist, to submit, or to fly. Here therefore, when we feel our selves surprised with fear; we should endeavour to avert our thoughts from the consideration of the danger, and fix them upon the reasons for which there is greater security and honour in resistance than in slight; and on the contrary, when we perceive our felves to be by dnger and desire of revenge provoked to rush furiously upon him who assaults us; we must remember to think, that it is great imprudence to precipitate ones self into manifest danger, when safety may be obtained without infamy: and where we are inferior to the Aggressor in point of strength, there we are likewise to consider, that it is better to retreat honourably, or to consent to terms of submission, than like a wild beaft to expose our selves to certain death. This therefore I ought to prescribe to my self, as a Third Pancreston or Universal Antitode against the incommodities impendent from Passions; viz. to give my self time for deliberation, where the occasion will allow it: and where

where it will not, there to convert my thoughts chiefly upon the reasons that contradict the suggestions of my passion: and always to remember that the reasons that offer themselves to recommend the object of my passion, are not really so valid and considerable, as my imagination represents them to be. Nor doth this counsel seem difficult to be put in practice, especially by considerate Men and such

who are wont to make serious reflections upon their actions.

But what need I thus perplex my Art. 12. A fourth thoughts in searching for Medicins to minumiversal tigate the violence of Passions, when Remedy, there is one singular Remedy infallibly viz. the constant sufficient to secure us from all the Evils exercise of the second on and that is the Vertue. they can possibly occasion, and that is the Vertue. constant exercise of Vertue? For, seeing that the internal commotions of the Rea-

sonable Soul touch us more neerly, and by consequence are much more prevalent over us, than the affections of the Sensitive, which though diffe-rent from, are yet many times conjoyned with them: most certain it is, that all the tumults raised in the Sensitive, have no power to perturb the tranquillity of her Superior, the Rational, pro-

vided she have reason to be in peace and

content within her self; but serve rather

to augment her Joy, by giving her oc-casions to know and delight in her own pesection, as often as she finds her self much above any the least discomposure or disturbance from them. And that The may be thus content within her felf, The need do no more but intirely addict her self to the love and pursuit of Virtue. For, whoever hath so lived, that his conscience cannot accuse him of ever neglecting to do those things which he judged to be best (which is exactly to follow the conduct of Virtue) this Man doth from thence receive that intellectual joy and satisfaction, which is of such soveraign power to make him happy, that the most violent commotions of his affections can never be of force enough to perturb the tranquillity of his Soul; and which being the Summum Bonum of human life, is not to be attained (as Seneca from his oracle Epicurus most judi-ciously observes, Epist. 23.) nisi ex bona conscientia, ex honestis consiliis, ex rectis actionibus, ex comtemptu fortuitorum, ex placido vitæ ac continuo tenore unam prementis viam. Nor is there indeed any other internal satisfaction or joy belonging to the Rational Soul, but what she thus formeth to her self out of her self; and what can therefore be no more interrupted, 6 0

terrupted, than she can be destroyed: the affurance whereof made the same Seneca say (Epist. 27.) Sola virtus prastat gaudium perpetuum, securum: etiam si quid obstat, nubium modo intervenit, qua infra

feruntur, nec unquam diem vincunt.

And these, my dear friend, are some Art.13. The study of those Philosophical considerations up- of Epicuon which I sometimes reslect (as I lately rus's Motold you) as Universal and Efficacious commended Remedies against vain desires suggested ed. by our Passions, and the various Evils to which they usually expose us. Which now you have with so great patience heard; 'tis fit I should gratefully resign you to a more profitable conversation with your own thoughts, which I know to be for the most part imployed in the study of things noble and worthy your excellent wit. But first, lest you should think I do it somwhat abruptly, and by omitting to prescribe also Special Preservatives proper to the excesses of each parcicular Affection, end this discourse before I have finished it: suffer me in a word to advertise you, that I make this omission, not from incogitancy, nor out of weariness, but only for your greater benefit. For, being of opinion, that the Ethicks of Epicarus are (after Holy writ) the best Dispensatory I have hitherto read,

of Natural Medicines for all distempers incident to the mind of Man: I conceive, I may do you better service by recommending that Book to your serious perusal, than by writing less accurately of the same most weighty argument. This therefore I now do; not doubting but that in the Morals of that grave and profound Philosopher, you will find as good Precepts for the moderating your Passions, as Human wisdom can give.

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